

chain nodes :

7 8 10 11 14 16 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 47 48 50
59 60 61 62 72 73 75 76

ring nodes :

1 2 3 4 5 6 64 65 66

chain bonds :

1-20 2-73 3-72 4-7 6-8 10-11 14-16 20-21 21-22 22-47 23-25 23-28 24-26 24-29
27-30 31-32 33-34 47-48 48-50 50-75 50-76 59-60 60-61 62-66

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 64-65 64-66 65-66

exact/norm bonds :

1-2 1-6 1-20 2-3 2-73 3-4 3-72 4-5 4-7 5-6 6-8 10-11 14-16 20-21 21-22 22-47
23-25 23-28 24-26 24-29 27-30 47-48 48-50 50-75 50-76 59-60 62-66

exact bonds :

31-32 33-34 60-61 64-65 64-66 65-66

isolated ring systems :

containing 1 : 64 :

G1:C,O,S

G2:O,N

G3:[*1-*2],[*3-*4],[*5-*6],[*7-*8]

G4:O,N,[*9-*10],[*11-*12],[*13-*14],[*15-*16],[*17-*18]

G5:C,Si

G6:CH2,O,N

G7:H,CH3

G8:Cy,Ak

Match level :

```
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS 11:CLASS 14:CLASS
16:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 47:CLASS 48:CLASS
50:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 64:Atom 65:Atom 66:Atom 72:CLASS 73:CLASS
75:CLASS 76:CLASS
Generic attributes :
22:
Saturation          : Saturated
Number of Carbon Atoms : less than 7
48:
Saturation          : Saturated
Number of Carbon Atoms : less than 7
Element Count :
Node 22: Limited
C,C1-4

Node 48: Limited
C,C1-4
```

10/585,283

=>Testing the current file.... screen

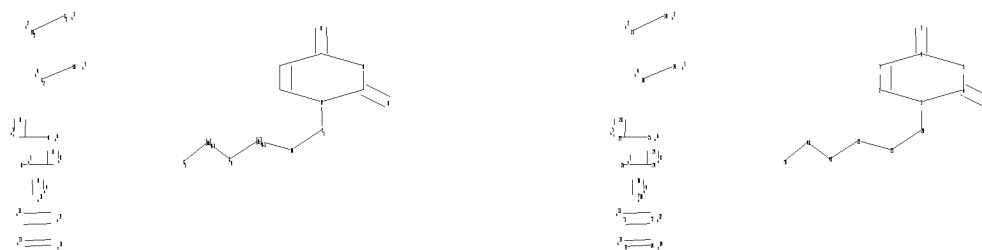
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10585283.str



chain nodes :

```

7  8  10  11  14  16  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34
47 48 50
ring nodes :
1  2  3  4  5  6
chain bonds :
1-20  4-7  6-8  10-11  14-16  20-21  21-22  22-47  23-25  23-28  24-26  24-29
27-30  31-32  33-34  47-48  48-50
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
1-2  1-6  1-20  2-3  3-4  4-5  4-7  5-6  6-8  10-11  14-16  20-21  21-22  22-47
23-25  23-28  24-26  24-29  27-30  47-48  48-50
exact bonds :
31-32  33-34
isolated ring systems :
containing 1 :

```

G1:C,O,S

G2:O,N

G3:[*1-*2],[*3-*4]

G4:O,N,[*5-*6],[*7-*8],[*9-*10],[*11-*12],[*13-*14]

G5:C,Si

Match level :

```

1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  10:CLASS
11:CLASS 14:CLASS 16:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS
25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS
33:CLASS 34:CLASS 47:CLASS 48:CLASS 50:CLASS

```

Generic attributes :

22:

Saturation : Saturated

Number of Carbon Atoms : less than 7

48:

Saturation : Saturated

Number of Carbon Atoms : less than 7

Element Count :

Node 22: Limited

C,C1-4

Node 48: Limited

C,C1-4

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d l3

L3 HAS NO ANSWERS

L1 SCR 2016 OR 2039 OR 2040 OR 2045 OR 2047

L2 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L3 QUE L2 NOT L1

=> s l3 sss sam

SAMPLE SEARCH INITIATED 10:29:22 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26194 TO ITERATE

7.6% PROCESSED 2000 ITERATIONS

8 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 514193 TO 533567

PROJECTED ANSWERS: 1481 TO 2709

L4 8 SEA SSS SAM L2 NOT L1

=> =>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2005

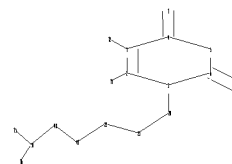
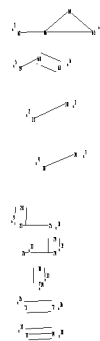
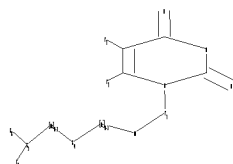
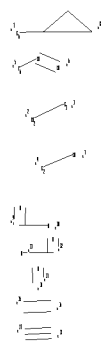
L5 SCREEN CREATED

=> screen 2016 OR 2039 OR 2040 OR 2045 OR 2047

L6 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10585283 (a).str



chain nodes :

7 8 10 11 14 16 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
47 48 50 59 60 61 62 72 73 75 76

ring nodes :

1 2 3 4 5 6 64 65 66

```

chain bonds :
1-20  2-73  3-72  4-7   6-8   10-11  14-16  20-21  21-22  22-47  23-25  23-28  24-26
24-29  27-30  31-32  33-34  47-48  48-50  50-75  50-76  59-60  60-61  62-66
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   64-65  64-66  65-66
exact/norm bonds :
1-2   1-6   1-20  2-3   2-73  3-4   3-72  4-5   4-7   5-6   6-8   10-11  14-16  20-21
21-22  22-47  23-25  23-28  24-26  24-29  27-30  47-48  48-50  50-75  50-76  59-60
62-66
exact bonds :
31-32  33-34  60-61  64-65  64-66  65-66
isolated ring systems :
containing 1 : 64 :

```

G1:C,O,S

G2:O,N

G3:[*1-*2],[*3-*4],[*5-*6],[*7-*8]

G4:O,N,[*9-*10],[*11-*12],[*13-*14],[*15-*16],[*17-*18]

G5:C,Si

G6:CH2,O,N

G7:H,CH3

G8:Cy,Ak

```

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  10:CLASS
11:CLASS 14:CLASS 16:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS
25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS
33:CLASS 34:CLASS 47:CLASS 48:CLASS 50:CLASS 59:CLASS 60:CLASS 61:CLASS
62:CLASS 64:Atom 65:Atom 66:Atom 72:CLASS 73:CLASS 75:CLASS 76:CLASS
Generic attributes :
22:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
48:
Saturation           : Saturated
Number of Carbon Atoms : less than 7

```

```

Element Count :
Node 22: Limited
      C,C1-4

```

```

Node 48: Limited
      C,C1-4

```

L7 STRUCTURE UPLOADED

=> que L7 AND L5 NOT L6

L8 QUE L7 AND L5 NOT L6

=> d 18

L8 HAS NO ANSWERS

L5 SCR 2005

L6 SCR 2016 OR 2039 OR 2040 OR 2045 OR 2047

L7 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L8 QUE L7 AND L5 NOT L6

=> s 18 sss sam

SAMPLE SEARCH INITIATED 10:38:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26194 TO ITERATE

7.6% PROCESSED 2000 ITERATIONS

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 514193 TO 533567

PROJECTED ANSWERS: 44 TO 478

L9 1 SEA SSS SAM L7 AND L5 NOT L6

=> => s 18 sss ful

FULL SEARCH INITIATED 10:39:10 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 525766 TO ITERATE

100.0% PROCESSED 525766 ITERATIONS

343 ANSWERS

SEARCH TIME: 00.00.07

L10 343 SEA SSS FUL L7 AND L5 NOT L6

=> => s 110

L11 121 L10

=> d 111 1-50 bib,ab,hitstr

L11 ANSWER 1 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:762006 CAPLUS

DN 151:94705

TI Preparations of oligonucleotide analogs with promoted resistance to nucleases and knock-down effects

IN Kitade, Yukio; Ueno, Yoshihito

PA Gifu University, Japan

SO Jpn. Kokai Tokkyo Koho, 29pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2009136157	A	20090625	JP 2007-312713	20071203
PRAI	JP 2007-312713		20071203		
OS	MARPAT 151:94705				

AB Oligonucleotides containing nucleoside analogs I (R1 = purine, pyrimidine, or their analogs containing F or Cl; R2 = lipophilic moiety such as OCOR21, O(CH2)xR22, OR23, NHR24 (x = 1-3); a, b, c, d = 1-10; R21, R24 = aryl or alkyl with(out) substitution, R22 = aryl with(out) substitution) which exhibit enhanced resistance to nucleases and knock-down effects have been provided. The oligonucleotides containing the base analogs can hybridize to form duplex strands. These oligonucleotides or their salts are applied to the gene targeted (gene knock-down, RNA interference) for therapeutic purposes and administered to the patients with diseases caused by abnormal over transcription of the target genes for suppression. The oligonucleotides containing the base analogs or their salts are also applied as hybridization probes to detect the gene associated with diseases. The probes made of the oligonucleotides containing the base analogs are provided as the part of DNA chip in the diagnostic test kit.

IT 1162644-97-4DP, conjugates with CPG resin

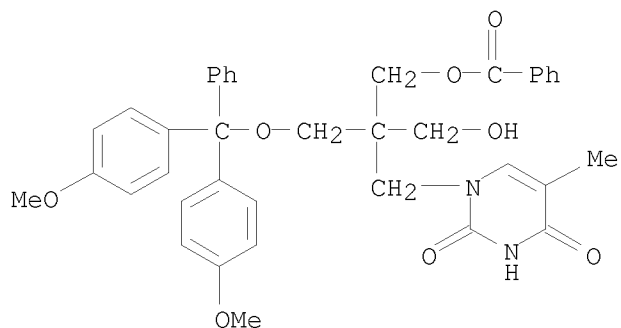
1162644-98-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preps. of oligonucleotide analogs with promoted resistance to nucleases and knock-down effects)

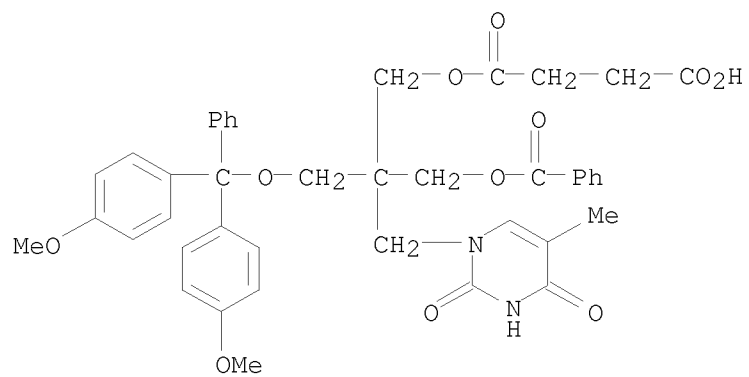
RN 1162644-97-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(benzoyloxy)-2-[[bis(4-methoxyphenyl)phenylmethoxy)methyl]-2-(hydroxymethyl)propyl]-5-methyl- (CA INDEX NAME)



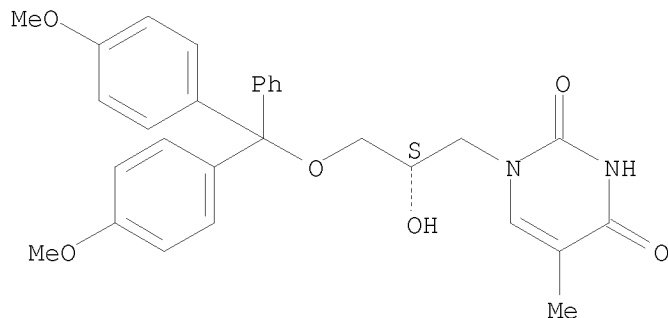
10/585,283

RN 1162644-98-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



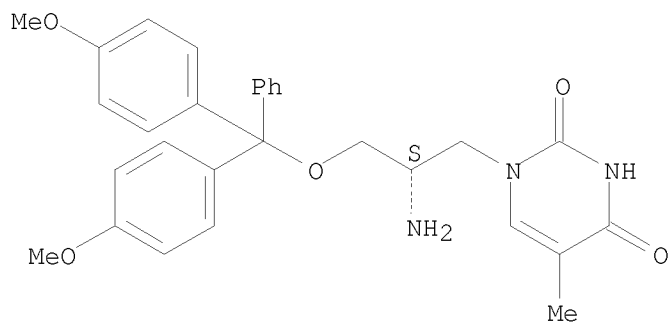
L11 ANSWER 2 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2009:102901 CAPLUS
 DN 150:230451
 TI N2' → P3' phosphoramidate glycerol nucleic acid as a potential
 alternative genetic system
 AU Chen, Jesse J.; Cai, Xin; Szostak, Jack W.
 CS Howard Hughes Medical Institute, Department of Molecular Biology and
 Center for Computational and Integrative Biology, Massachusetts General
 Hospital, Boston, MA, 02114, USA
 SO Journal of the American Chemical Society (2009), 131(6), 2119-2121
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 AB Glycerol nucleic acid (GNA) is an interesting base-pairing system with an
 acyclic, three-carbon backbone. In the present study, GNA analogs with
 N2' → P3' phosphoramidate linkages (npGNA) have been synthesized
 and their base-pairing properties examined Thermal denaturation and CD
 studies show that npGNA can form stable duplexes with itself and with GNA.
 Furthermore, we show that npGNA can be assembled by template-directed
 ligation of 3'-imidazole-activated-2'-amino GNA dinucleotides. These
 results suggest that npGNA is a potential candidate for a self-replicating
 system based upon phosphoramidate linkages.
 IT 168332-12-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (n2' → P3' phosphoramidate glycerol nucleic acid as potential
 alternative genetic system)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-
 2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



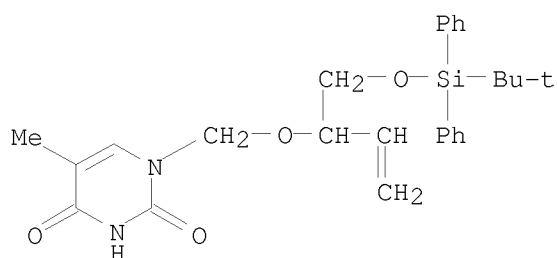
IT 1112280-22-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (n2' → P3' phosphoramidate glycerol nucleic acid as potential
 alternative genetic system)
 RN 1112280-22-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-2-amino-3-[bis(4-
 methoxyphenyl)phenylmethoxy]propyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

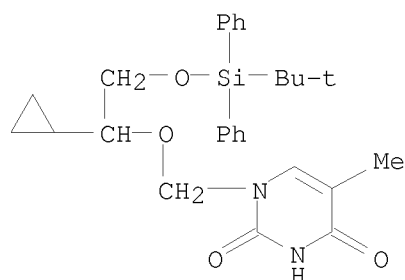


OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

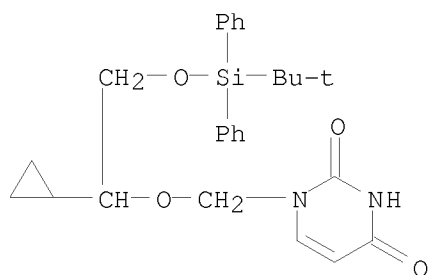
L11 ANSWER 3 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1383646 CAPLUS
 DN 149:575976
 TI Synthesis of nucleosides
 AU Vorbrueggen, Helmut; Ruh-Pohlenz, Carmen
 CS Research Laboratories of Schering AG, Berlin, Germany
 SO Organic Reactions (Hoboken, NJ, United States) (2000), 55, No pp. given
 CODEN: ORHNBA
 URL: <http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME>
 PB John Wiley & Sons, Inc.
 DT Journal; General Review; (online computer file)
 LA English
 OS CASREACT 149:575976
 AB A review of the article Synthesis of nucleosides.
 IT 136083-18-6P 141619-32-1P 141619-35-4P
 146061-97-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (Synthesis Of Nucleosides)
 RN 136083-18-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-propen-1-yl]oxy]methyl]-5-methyl-
 (CA INDEX NAME)



RN 141619-32-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-cyclopropyl-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

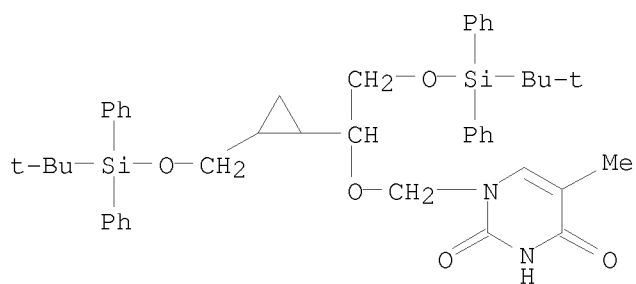


RN 141619-35-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-cyclopropyl-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)

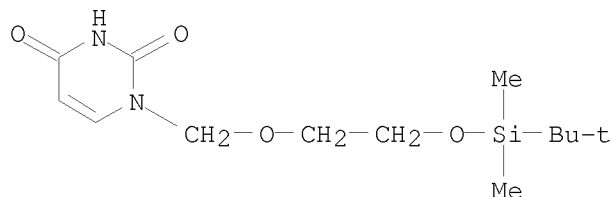


RN 146061-97-4 CAPLUS

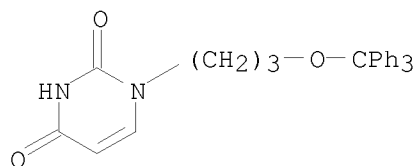
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1-[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]cyclopropyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



L11 ANSWER 4 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1134021 CAPLUS
 DN 149:548245
 TI Application of molecular topology to the prediction of the antimalarial activity of a group of uracil-based acyclic and deoxyuridine compounds
 AU Garcia-Domenech, Ramon; Lopez-Pena, Wanda; Sanchez-Perdomo, Yessenia; Sanders, Jose R.; Sierra-Araujo, Mercedes M.; Zapata, Claudy; Galvez, Jorge
 CS Department Quimica Fisica, Facultad de Farmacia, Universitat de Valencia, Valencia, 46100, Spain
 SO International Journal of Pharmaceutics (2008), 363(1-2), 78-84
 CODEN: IJPHDE; ISSN: 0378-5173
 PB Elsevier B.V.
 DT Journal
 LA English
 AB A topol.-math. model has been arranged to search for new derivs. of deoxyuridine and related compds. acting as antimalarials against Plasmodium falciparum. By using linear discriminant and multilinear regression anal. a model with two functions was capable to predict adequately the IC50 for each compound of the training and test series. After carrying out a virtual screening based upon such a model, new structures potentially active against P. falciparum are proposed.
 IT 121749-94-8 860266-80-4 860266-81-5
 860266-83-7 860266-84-8 860266-85-9
 860266-87-1 860266-88-2 860266-89-3
 860266-90-6 860266-91-7 860266-92-8
 860266-93-9 860266-94-0 860266-96-2
 860267-03-4 860267-11-4 904907-21-7
 904907-23-9 904907-27-3 904907-28-4
 1027312-28-2
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (application of mol. topol. to the prediction of antimalarial activity of a group of uracil-based acyclic and deoxyuridine compds.)
 RN 121749-94-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)

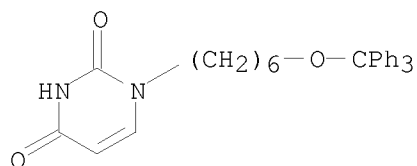


RN 860266-80-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



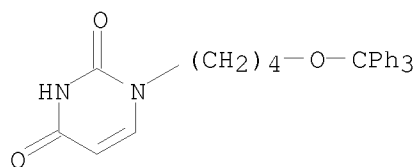
RN 860266-81-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-(triphenylmethoxy)hexyl]- (CA INDEX NAME)



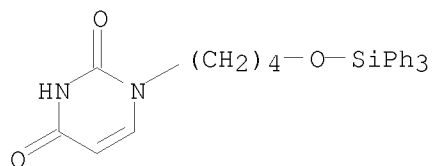
RN 860266-83-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



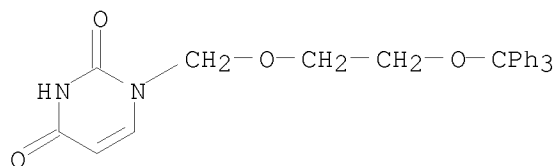
RN 860266-84-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylsilyl)oxy]butyl]- (CA INDEX NAME)



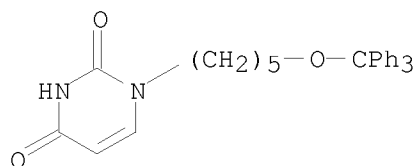
RN 860266-85-9 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(triphenylmethoxy)ethoxy]methyl]- (CA INDEX NAME)



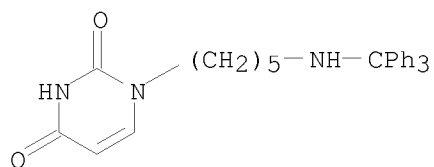
RN 860266-87-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-(triphenylmethoxy)pentyl]- (CA INDEX NAME)



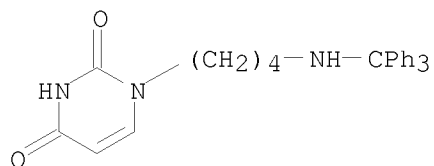
RN 860266-88-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylmethyl)amino]pentyl]- (CA INDEX NAME)



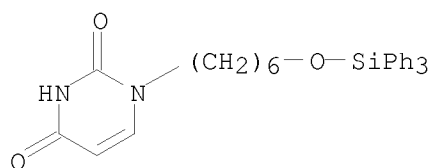
RN 860266-89-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



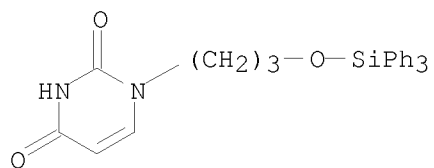
RN 860266-90-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylsilyl)oxy]hexyl]- (CA INDEX NAME)



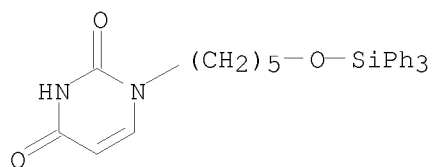
RN 860266-91-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylsilyl)oxy]propyl]- (CA INDEX NAME)



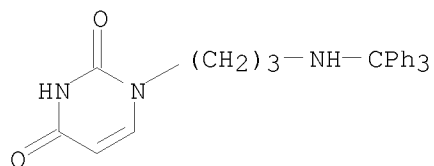
RN 860266-92-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylsilyl)oxy]pentyl]- (CA INDEX NAME)



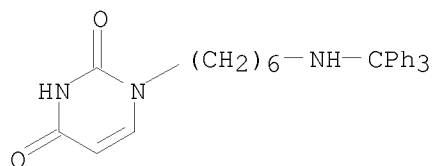
RN 860266-93-9 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylmethyl)amino]propyl]- (CA INDEX NAME)



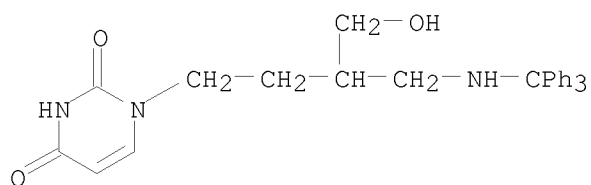
RN 860266-94-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylmethyl)amino]hexyl]- (CA INDEX NAME)



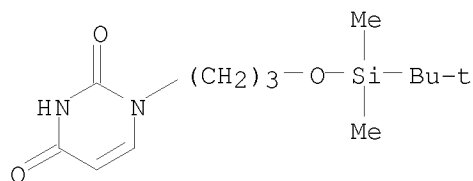
RN 860266-96-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(hydroxymethyl)-4-
[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



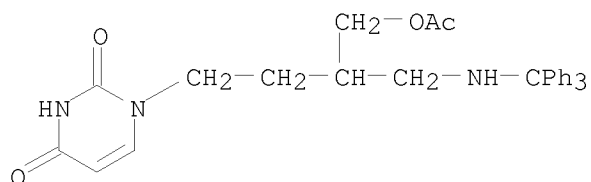
RN 860267-03-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[[(1,1-
dimethylethyl)dimethylsilyl]oxy]propyl]- (CA INDEX NAME)



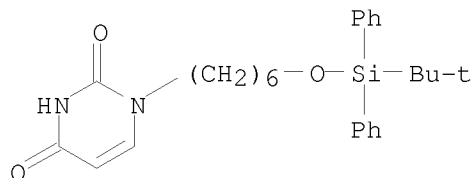
RN 860267-11-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(acetyloxy)methyl]-4-
[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



RN 904907-21-7 CAPLUS

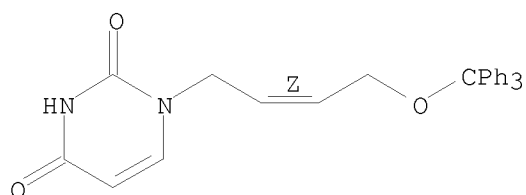
CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[[(1,1-
dimethylethyl)diphenylsilyl]oxy]hexyl]- (CA INDEX NAME)



RN 904907-23-9 CAPLUS

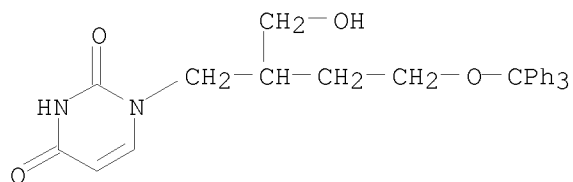
CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z)-4-(triphenylmethoxy)-2-buten-1-yl]-
(CA INDEX NAME)

Double bond geometry as shown.



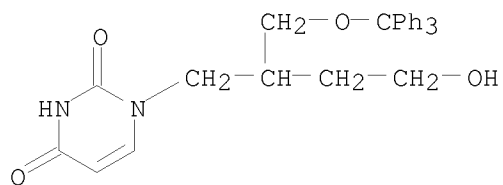
RN 904907-27-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(hydroxymethyl)-4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



RN 904907-28-4 CAPLUS

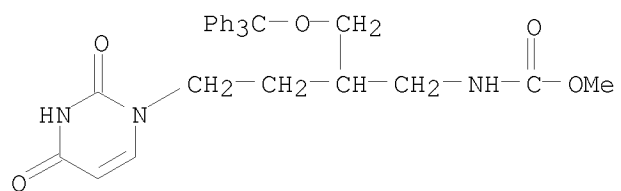
CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-hydroxy-2-[(triphenylmethoxy)methyl]butyl]- (CA INDEX NAME)



RN 1027312-28-2 CAPLUS

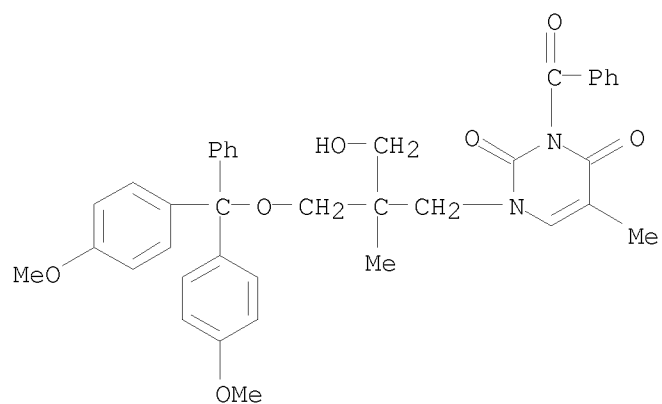
CN Carbamic acid, N-[4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-2-[(triphenylmethoxy)methyl]butyl]-, methyl ester (CA INDEX NAME)

10/585,283



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1087794 CAPLUS
 DN 149:524541
 TI Synthesis, structural studies and biological properties of new TBA
 analogues containing an acyclic nucleotide
 AU Coppola, Teresa; Varra, Michela; Oliviero, Giorgia; Galeone, Aldo; D'Isa,
 Giuliana; Mayol, Luciano; Morelli, Elena; Bucci, Maria-Rosaria; Vellecco,
 Valentina; Cirino, Giuseppe; Borbone, Nicola
 CS Dipartimento di Chimica delle Sostanze Naturali, Universita degli Studi di
 Napoli "Federico II", Naples, 80131, Italy
 SO Bioorganic & Medicinal Chemistry (2008), 16(17), 8244-8253
 CODEN: BMECEP; ISSN: 0968-0896
 PB Elsevier Ltd.
 DT Journal
 LA English
 OS CASREACT 149:524541
 AB A new modified acyclic nucleoside, namely N
 1-(3-hydroxy-2-hydroxymethyl-2-methylpropyl)-thymidine, was synthesized
 and transformed into a building block useful for oligonucleotide (ON)
 automated synthesis. A series of modified thrombin binding aptamers
 (TBAs) in which the new acyclic nucleoside replaces, one at the time, the
 thymidine residues were then synthesized and characterized by UV, CD, MS,
 and 1H NMR. The biol. activity of the resulting TBAs was tested by
 Prothrombin Time assay (PT assay) and by purified fibrinogen clotting
 assay. From a structural point of view, nearly all the new TBA analogs
 show a similar behavior as the unmodified counterpart, being able to fold
 into a bimol. or monomol. quadruplex structure depending on the nature of
 monovalent cations (sodium or potassium) coordinated in the quadruplex
 core. From the comparison of structural and biol. data, some important
 structure-activity relationships emerged, particularly when the
 modification involved the TT loops. In agreement with previous studies
 the authors found that the folding ability of TBA analogs is more affected
 by modifications involving positions 4 and 13, rather than positions 3 and
 12. On the other hand, the highest antithrombin activities were detected
 for aptamers containing the modification at T13 or T12 positions, thus
 indicating that the effects produced by the introduction of the acyclic
 nucleoside on the biol. activity are not tightly connected with structure
 stabilities. It is noteworthy that the modification at T7 produces an ON
 being more stable and active than the natural TBA.
 IT 1075753-83-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis, structural studies and biol. properties of new TBA analogs
 containing an acyclic nucleotide)
 RN 1075753-83-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[3-[bis(4-
 methoxyphenyl)phenylmethoxy]-2-(hydroxymethyl)-2-methylpropyl]-5-methyl-
 (CA INDEX NAME)

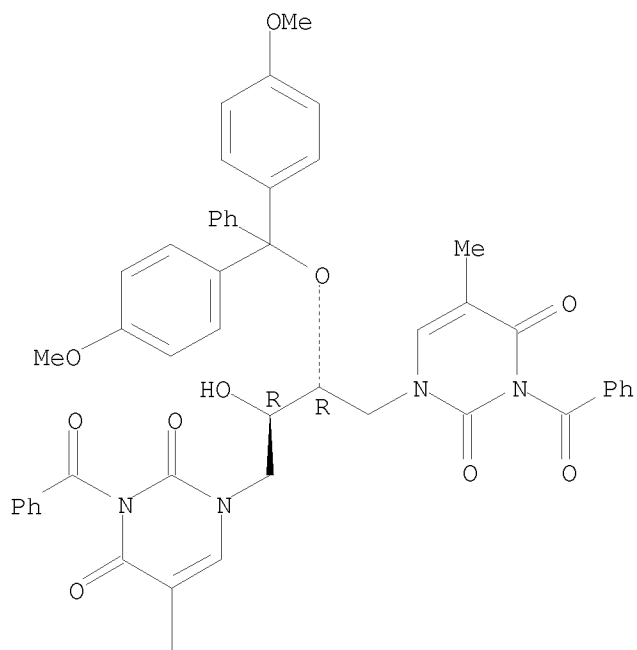


OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT	45	THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1424791 CAPLUS
 DN 148:262838
 TI Synthetic nucleic acid secondary structures containing the four
 stereoisomers of 1,4-bis(thymine-1-yl)butane-2,3-diol
 AU Christensen, Mikkel S.; Bond, Andrew D.; Nielsen, Poul
 CS Nucleic Acid Center, University of Southern Denmark, Odense M, 5230, Den.
 SO Organic & Biomolecular Chemistry (2008), 6(1), 81-91
 CODEN: OBCRAK; ISSN: 1477-0520
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 148:262838
 AB The four stereoisomers of the double-headed acyclic nucleoside
 1,4-bis(thymine-1-yl)butane-2,3-diol were incorporated in the central
 position of four 13-mer oligonucleotides. The phosphoramidite building
 blocks were synthesized in four or six steps from either D- or
 L-2,3-O-isopropylidene-threitol. Two epimeric and fully deprotected
 double-headed nucleosides were analyzed by X-ray crystallog. The
 incorporation into oligonucleotides was hampered by steric hindrance and
 formation of a cyclic phosphate. The use of pyridinium chloride as the
 activator and a kinetic anal. based on ^{31}P NMR of the coupling and
 detritylation processes led to improved yields of the oligonucleotides.
 In comparison with the (S)-GNA monomer, one of the four stereoisomers was
 found to show a similar destabilization of a DNA duplex, indicating that
 the addnl. base can be introduced without a thermal penalty. Another
 stereoisomer was found to induce a thermal stabilization of a DNA:RNA
 three-way junction. Thus, the stereochem. of this acyclic double-headed
 nucleoside motif is important, indicating potential for the design of
 artificial nucleic acid secondary structures.
 IT 1006048-45-8P 1006048-46-9P 1006048-49-2P
 1006048-50-5P 1006048-51-6P 1006048-52-7P
 1006048-53-8P 1006048-54-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthetic nucleic acid secondary structures containing four stereoisomers
 of 1,4-bis(thymine-1-yl)butane-2,3-diol)
 RN 1006048-45-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2R,3R)-2-[bis(4-
 methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[3-benzoyl-5-
 methyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



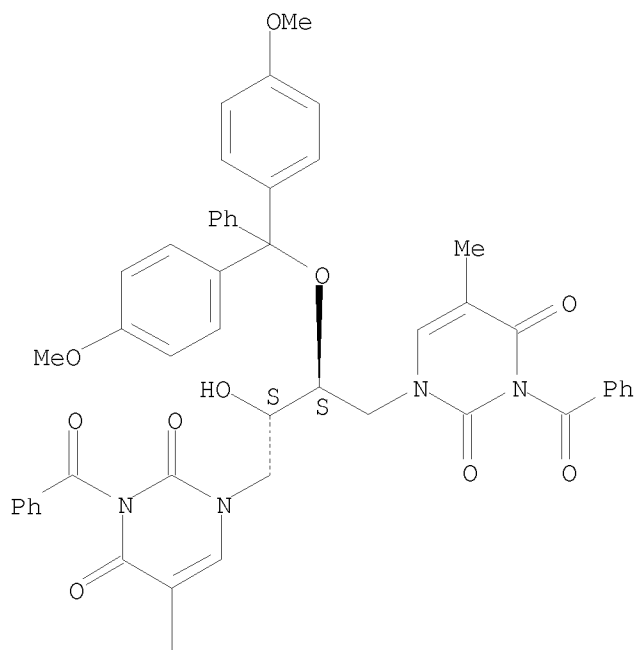
PAGE 2-A



RN 1006048-46-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2S,3S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[3-benzoyl-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

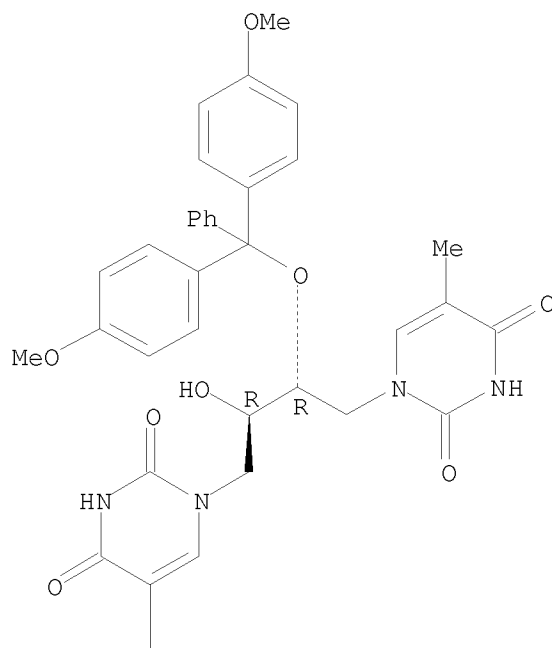


PAGE 2-A



RN 1006048-49-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2R,3R)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)

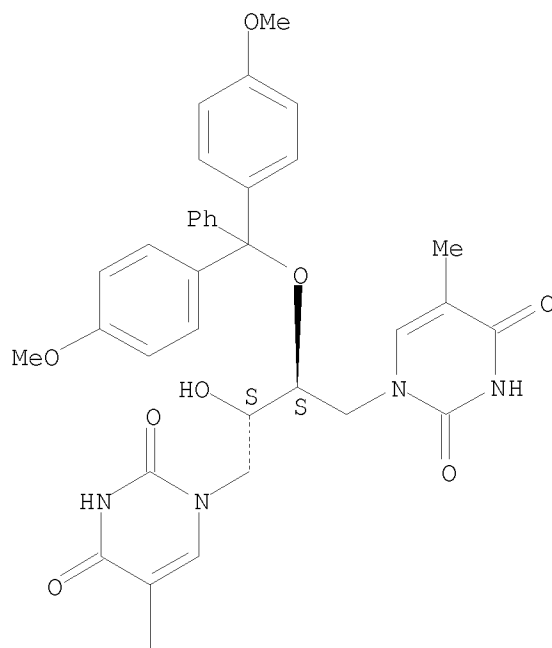
Absolute stereochemistry. Rotation (+).



RN 1006048-50-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2S,3S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



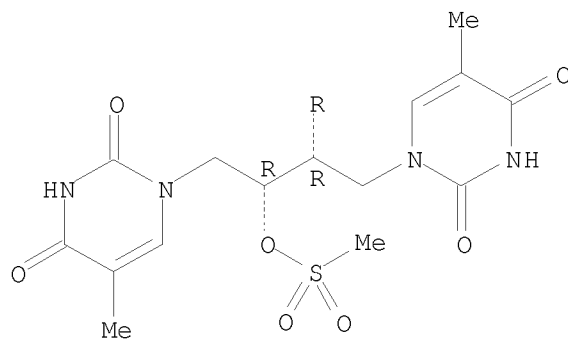
PAGE 2-A



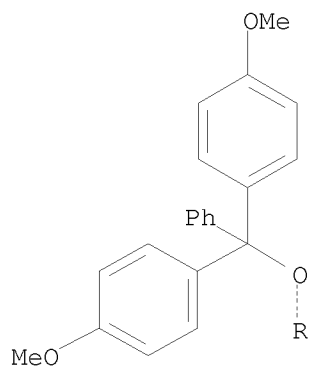
RN 1006048-51-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2R,3R)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-[(methylsulfonyl)oxy]-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



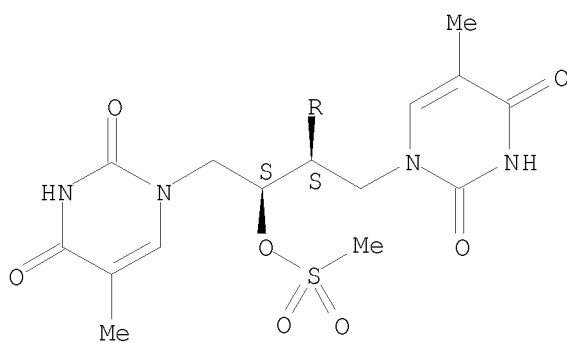
PAGE 2-A



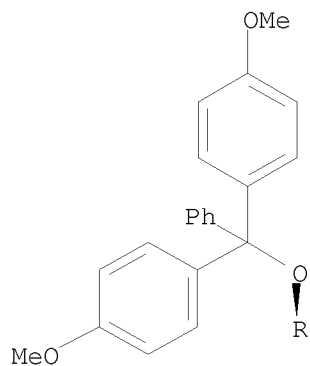
RN 1006048-52-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2S,3S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-[(methylsulfonyl)oxy]-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)]

Absolute stereochemistry.

PAGE 1-A



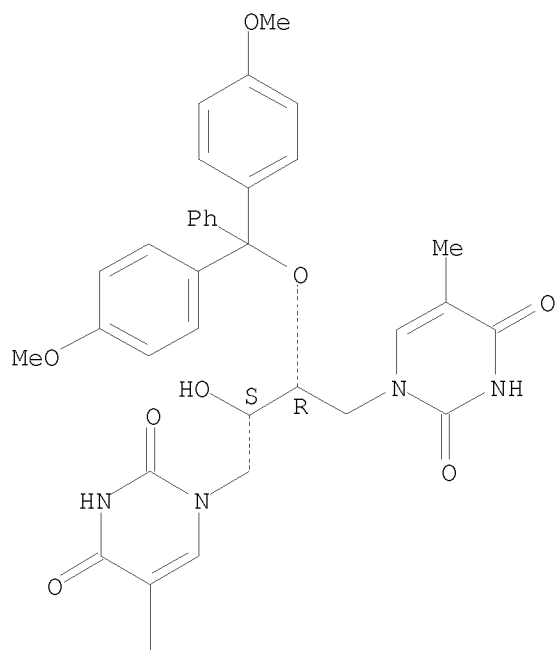
PAGE 2-A



RN 1006048-53-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2R,3S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



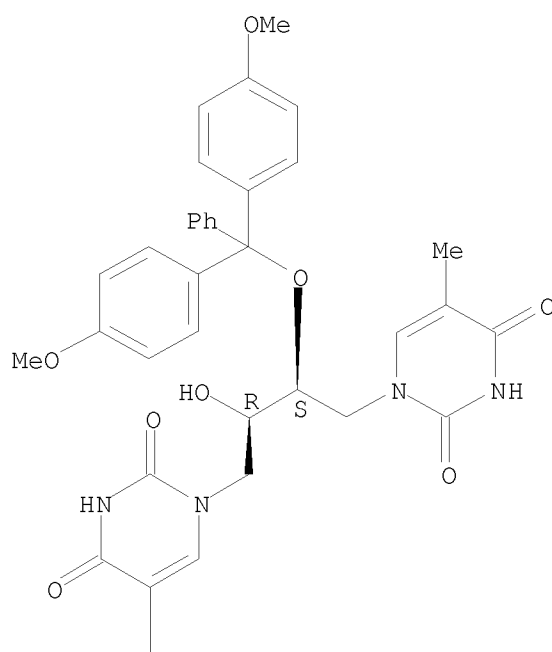
PAGE 2-A



RN 1006048-54-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(2S,3R)-2-[bis(4-methoxyphenyl)phenylmethoxy]-3-hydroxy-1,4-butanediyl]bis[5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A

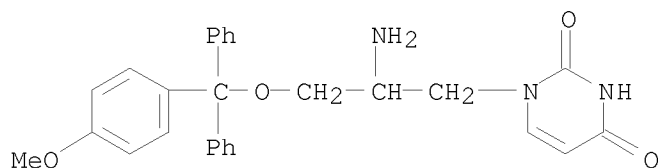


PAGE 2-A



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

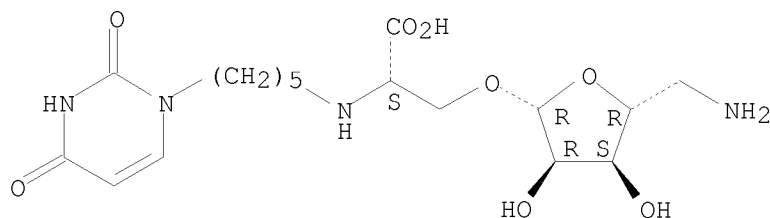
L11 ANSWER 7 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1393642 CAPLUS
 DN 149:448661
 TI Some Novel Aminopropyl Nucleoside Phosphonates
 AU Zhou, Ding; Lagoja, Irene M.; Van Aerschot, Arthur
 CS Laboratory of Medicinal Chemistry, Rega Institute, Louvain, Belg.
 SO Nucleosides, Nucleotides & Nucleic Acids (2007), 26(6-7), 563-566
 CODEN: NNNAFY; ISSN: 1525-7770
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 AB Aminopropyl nucleoside phosphonates have an amino function within either the acyclic chain or as substituent of HPMPC (Cidofovir) were prepared Both purine and pyrimidine nucleoside analogs have been synthesized. In contrast to HPMPC, only a weak antiherpes virus activity could be demonstrated.
 IT 918869-00-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aminopropyl nucleoside phosphonates as antiherpes agents)
 RN 918869-00-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-amino-3-[(4-methoxyphenyl)diphenylmethoxy]propyl]- (CA INDEX NAME)



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

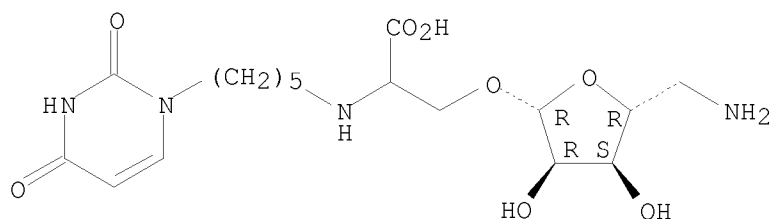
L11 ANSWER 8 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1374612 CAPLUS
 DN 148:144992
 TI Towards new MraY inhibitors: a serine template for uracil and
 5-amino-5-deoxyribosyl scaffolding
 AU Le Corre, Laurent; Gravier-Pelletier, Christine; Le Merrer, Yves
 CS Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques,
 Universite Paris Descartes, CNRS UMR, Paris Cedex 06, Fr.
 SO European Journal of Organic Chemistry (2007), (32), 5386-5394
 CODEN: EJOCFK; ISSN: 1434-193X
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 OS CASREACT 148:144992
 AB The bacterial translocase MraY is a good target for the development of new
 antibiotics as it is ubiquitous and essential for bacterial growth. The
 goal of this work was the synthesis of simplified analogs of naturally
 occurring inhibitors of this enzyme to investigate the essential character
 of the uridine moiety of these inhibitors with regards to biol. activity.
 Thus, the structure of the targeted enantiomerically pure
 N-(uracilylpentyl)- β -D-O-(5-amino-5-deoxyribosyl)-L-serine retains
 uracil and 5-amino-5-deoxyribose parts linked by a serinyl template. The
 synthetic strategy towards this compound relies on sequential
 O-glycosylation and N-alkylation by reductive amination of a serine derivative
 IT 1001671-07-3P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation)
 (preparation of (uracilylpentyl)(aminodeoxyribosyl)serine as a potential
 inhibitor of translocase MraY for development of antibiotics)
 RN 1001671-07-3 CAPLUS
 CN L-Serine, O-(5-amino-5-deoxy- β -D-ribofuranosyl)-N-[5-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)pentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 1001671-12-0P
 RL: BYP (Byproduct); PREP (Preparation)
 (preparation of (uracilylpentyl)(aminodeoxyribosyl)serine as a potential
 inhibitor of translocase MraY for development of antibiotics)
 RN 1001671-12-0 CAPLUS
 CN Serine, O-(5-amino-5-deoxy- β -D-ribofuranosyl)-N-[5-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)pentyl]- (CA INDEX NAME)

Absolute stereochemistry.



IT 1001671-11-9P 1001671-14-2P 1001671-15-3P
 1001671-16-4P 1001671-18-6P 1001671-23-3P
 1001671-24-4P 1001671-25-5P 1001671-26-6P
 1001671-27-7P

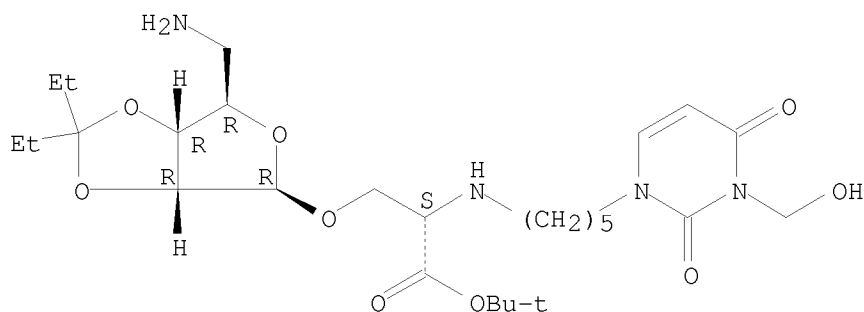
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (uracilylpentyl)(aminodeoxyribosyl)serine as a potential inhibitor of translocase MraY for development of antibiotics)

RN 1001671-11-9 CAPLUS

CN L-Serine, O-[5-amino-5-deoxy-2,3-O-(1-ethylpropylidene)-β-D-ribofuranosyl]-N-[5-[3,4-dihydro-3-(hydroxymethyl)-2,4-dioxo-1(2H)-pyrimidinyl]pentyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

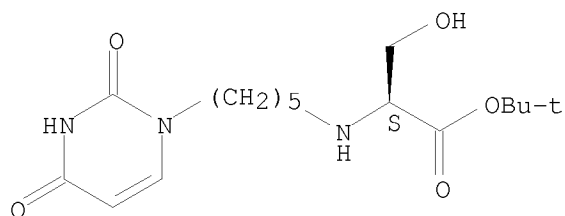
Absolute stereochemistry.



RN 1001671-14-2 CAPLUS

CN L-Serine, N-[5-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)pentyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

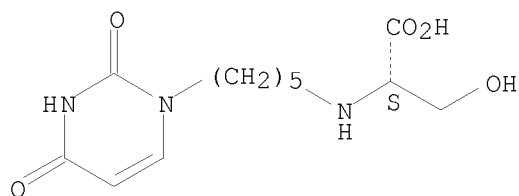


RN 1001671-15-3 CAPLUS

CN L-Serine, N-[5-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)pentyl]- (CA

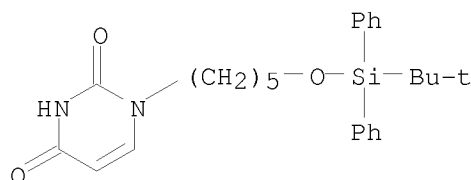
INDEX NAME)

Absolute stereochemistry.



RN 1001671-16-4 CAPLUS

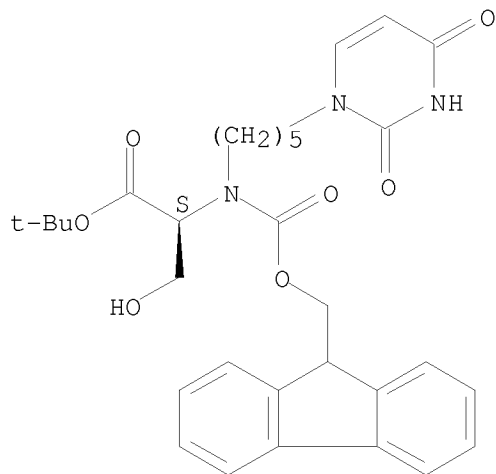
CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]pentyl]- (CA INDEX NAME)



RN 1001671-18-6 CAPLUS

CN L-Serine, N-[5-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)pentyl]-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

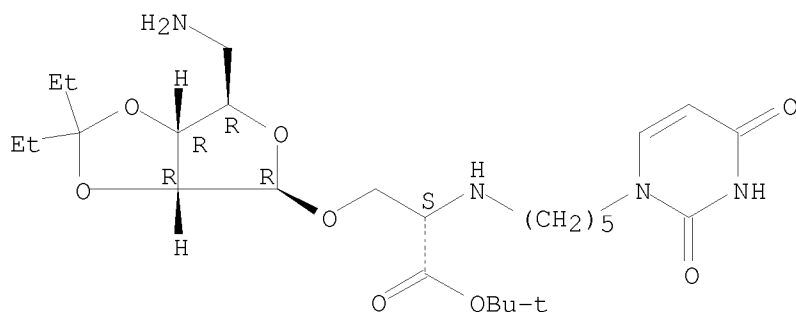
Absolute stereochemistry. Rotation (-).



RN 1001671-23-3 CAPLUS

CN L-Serine, O-[5-amino-5-deoxy-2,3-O-(1-ethylpropylidene)-β-D-ribofuranosyl]-N-[5-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)pentyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

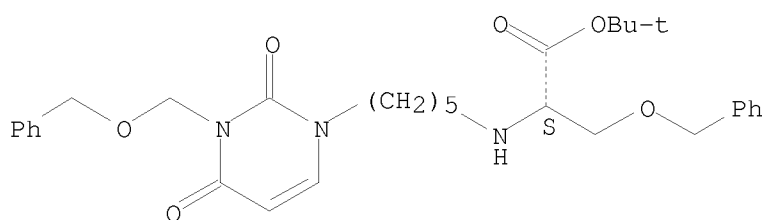
Absolute stereochemistry. Rotation (-).



RN 1001671-24-4 CAPLUS

CN L-Serine, N-[5-[3,4-dihydro-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]pentyl]-O-(phenylmethyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

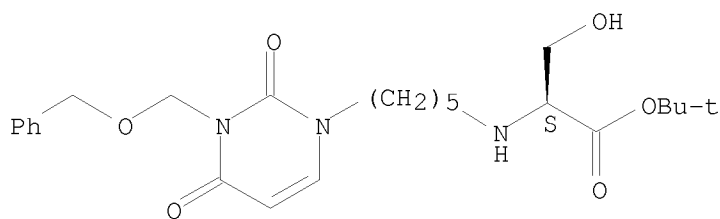
Absolute stereochemistry. Rotation (-).



RN 1001671-25-5 CAPLUS

CN L-Serine, N-[5-[3,4-dihydro-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]pentyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

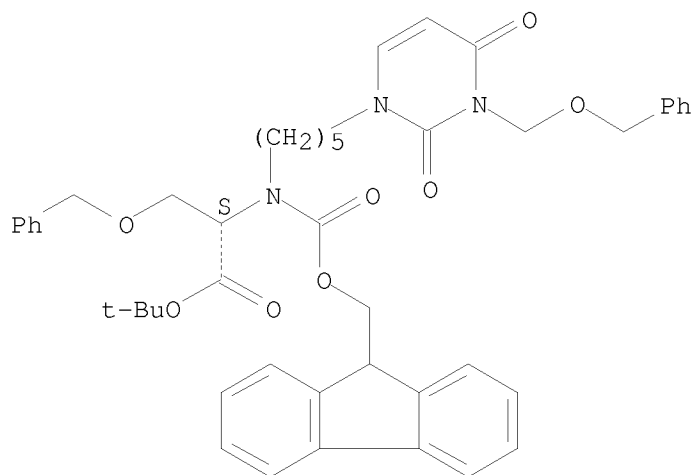
Absolute stereochemistry. Rotation (-).



RN 1001671-26-6 CAPLUS

CN L-Serine, N-[5-[3,4-dihydro-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]pentyl]-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-O-(phenylmethyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

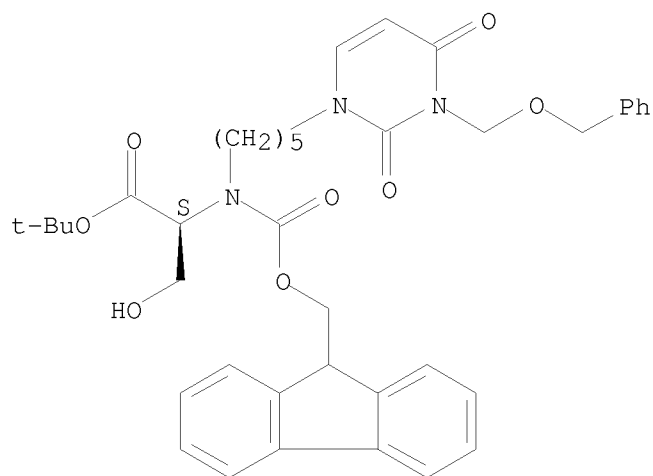
Absolute stereochemistry. Rotation (-).



RN 1001671-27-7 CAPLUS

CN L-Serine, N-[5-[3,4-dihydro-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]pentyl]-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

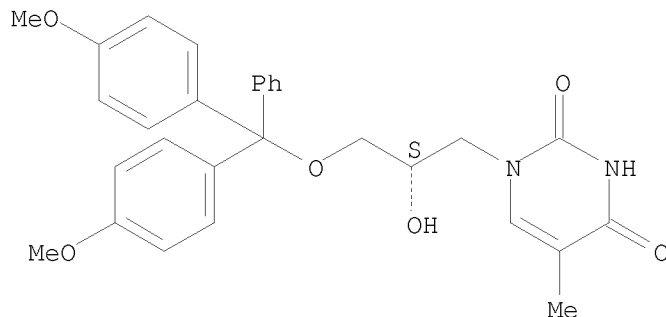
Absolute stereochemistry. Rotation (-).



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L11 ANSWER 9 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1142935 CAPLUS
 DN 148:256274
 TI Experimental Evidence That GNA and TNA Were Not Sequential Polymers in the Prebiotic Evolution of RNA
 AU Yang, Ying-Wei; Zhang, Su; McCullum, Elizabeth O.; Chaput, John C.
 CS The Center for BioOptical Nanotechnology, The Biodesign Institute, and Department of Chemistry and Biochemistry, Arizona State University, Tempe, AZ, 85287, USA
 SO Journal of Molecular Evolution (2007), 65(3), 289-295
 CODEN: JMEVAU; ISSN: 0022-2844
 PB Springer
 DT Journal
 LA English
 OS CASREACT 148:256274
 AB Systematic investigation into the chemical etiol. of ribose has led to the discovery of glycerol nucleic acid (GNA) and threose nucleic acid (TNA) as possible progenitor candidates of RNA in the origins of life. Coupled with their chemical simplicity, polymers for both systems are capable of forming stable Watson-Crick antiparallel duplex structures with themselves and RNA, thereby providing a mechanism for the transfer of genetic information between successive genetic systems. Investigation into whether both polymers arose independently or descended from a common evolutionary pathway would provide addnl. constraints on models that describe the emergence of a hypothetical RNA world. Here we show by thermal denaturation that complementary GNA and TNA mixed sequence polymers are unable, even after prolonged incubation times, to adopt stable helical structures by intersystem cross-pairing. This exptl. observation suggests that GNA and TNA, whose structures derive from one another, were not consecutive polymers in the same evolutionary pathway to RNA.
 IT 168332-12-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (exptl. evidence that GNA and TNA were not sequential polymers in prebiotic evolution of RNA)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD

10/585,283

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1064569 CAPLUS
 DN 147:357157
 TI Prevention and treatment of cancer and other diseases
 IN Bondarev, Igor E.
 PA Alt Solutions, Inc., USA
 SO PCT Int. Appl., 94 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007106561	A2	20070920	WO 2007-US6538	20070314
	WO 2007106561	A3	20080814		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	WO 2006125166	A2	20061123	WO 2006-US19488	20060518
	WO 2006125166	A9	20080320		
	WO 2006125166	A3	20090611		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	CA 2644297	A1	20070920	CA 2007-2644297	20070314
	EP 2001488	A2	20081217	EP 2007-753185	20070314
	R:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	CN 101443021	A	20090527	CN 2007-80017408	20081113
	US 20090203636	A1	20090813	US 2009-225199	20090129
PRAI	US 2006-782559P	P	20060314		
	US 2006-801693P	P	20060518		
	WO 2006-US19488	A	20060518		
	US 2006-860518P	P	20061121		
	US 2005-682110P	P	20050518		
	US 2006-801698P	P	20060520		
	WO 2007-US6538	W	20070314		

AB Nucleoside chemical compds., which interact with specific structures of DNA

(DNA) or RNA (RNA) are disclosed. The compds. interfere with the activities of telomerase and reverse transcriptase, and are useful as antivirals, antibacterials and anticancer agents. Methods of treating or preventing cancers in patients involving administration of a therapeutically effective amount of a composition having an inhibitor or antagonist of the reverse transcriptases (RTs) expressed in cells of the patients are also disclosed. Method of using nucleoside analogs and other inhibitors of RTs in conjunction with DNA damaging agents such as genotoxic agents or radiation or photodynamic therapy or combinations these for the treatment of various cancers are also disclosed. Administration of an acyclic nucleoside analog combination comprised of Retrovir, Zovirax, Valcyte and Valtrex along with genotoxic agent, Xeloda, to a patient suffering from inoperable stomach carcinoma prevented tumor growth based on examination of the abdominal cavity. Acyclic nucleoside analogs and prodrugs were prepared and their antitumor activity in vitro in osteosarcoma cells was evaluated.

IT 949891-65-0P

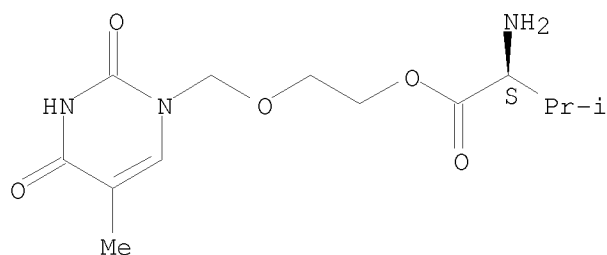
RL: ADV (Adverse effect, including toxicity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(acyclic nucleoside analog combinations for prevention and treatment of cancer)

RN 949891-65-0 CAPLUS

CN L-Valine, 2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]ethyl ester, hydrochloride, hydrate (1:1:1) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

● H₂O

IT 949891-63-8P

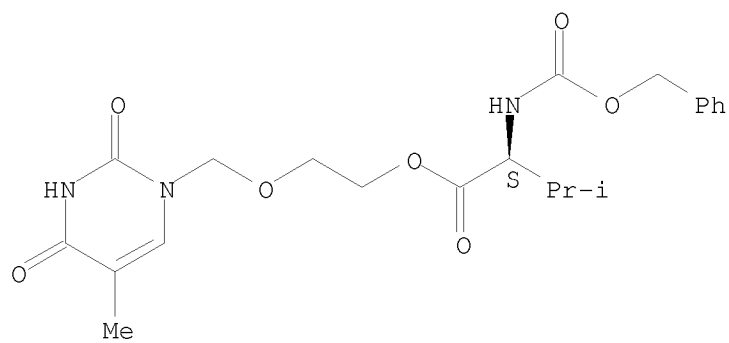
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(acyclic nucleoside analog combinations for prevention and treatment of cancer)

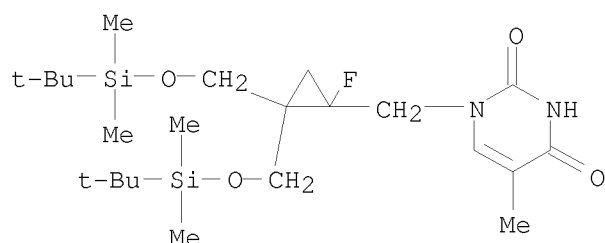
RN 949891-63-8 CAPLUS

CN L-Valine, N-[(phenylmethoxy)carbonyl]-, 2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]ethyl ester (CA INDEX NAME)

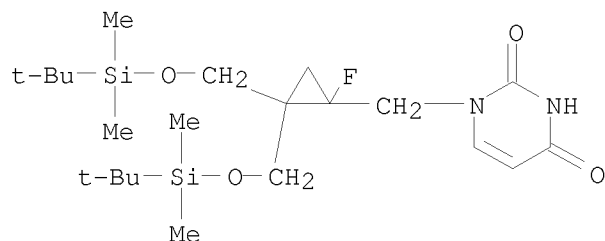
Absolute stereochemistry.



L11 ANSWER 11 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:606948 CAPLUS
 DN 148:496262
 TI Short synthesis and antiviral evaluation of C-fluoro-branched cyclopropyl nucleosides
 AU Oh, Chang Hyun; Hong, Joon Hee
 CS Medicinal Chemistry Research Center, Korea Institute of Science and Technology, Seoul, S. Korea
 SO Nucleosides, Nucleotides & Nucleic Acids (2007), 26(4), 403-411
 CODEN: NNNAFY; ISSN: 1525-7770
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 OS CASREACT 148:496262
 AB A series of novel fluorocyclopropyl nucleosides were synthesized using the Simmons-Smith reaction as a key reaction starting from 1,3-dihydroxyacetone. All the nucleosides synthesized were assayed against several viruses. Among the compds. synthesized, the 5-fluorouracil analog showed significant anti-HCMV activity (9.22 μ M).
 IT 1021327-75-2P 1021327-76-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and antiviral activity of C-fluoro-branched cyclopropyl nucleosides)
 RN 1021327-75-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2,2-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluorocyclopropyl]methyl]-5-methyl- (CA INDEX NAME)



RN 1021327-76-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2,2-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluorocyclopropyl]methyl]- (CA INDEX NAME)

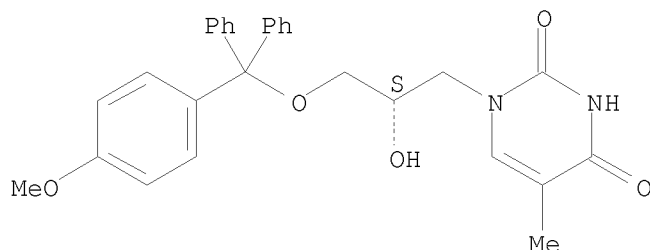


10/585,283

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:494023 CAPLUS
 DN 147:183202
 TI Chemical etiology of nucleic acids: aminopropyl nucleic acids (APNAs)
 AU Zhou, Ding; Froeyen, Matheus; Rozenski, Jozef; Van Aerschot, Arthur;
 Herdewijn, Piet
 CS Laboratory of Medicinal Chemistry, Rega Institute for Medical Research,
 Katholieke Universiteit Leuven, Louvain, B-3000, Belg.
 SO Chemistry & Biodiversity (2007) 4(4), 740-761
 CODEN: CBHIAM; ISSN: 1612-1872
 PB Verlag Helvetica Chimica Acta AG
 DT Journal
 LA English
 AB Aminopropyl nucleic acids (APNAs) are constitutionally simple nucleic acid
 alternatives with one stereogenic center per nucleotide, and with the
 potential to hybridize with RNA and to exert catalytic functions. We have
 developed a protecting group strategy to synthesize APNAs, although in a
 not very efficient way. Isolation and purification of APNAs proved to be
 difficult. Their structures might be more suited to function as potential
 catalytic polymers than as information systems that may evolve into RNA.
 IT 944132-80-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aminopropyl nucleoside derivs. (APNs))
 RN 944132-80-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-2-hydroxy-3-[(4-
 methoxyphenyl)diphenylmethoxy]propyl]-5-methyl- (CA INDEX NAME)

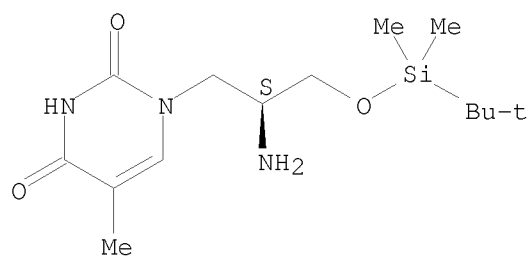
Absolute stereochemistry.



IT 944132-84-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of aminopropyl nucleoside derivs. (APNs))
 RN 944132-84-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-2-amino-3-[[1,1-
 dimethylethyl]dimethylsilyl]oxy]propyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

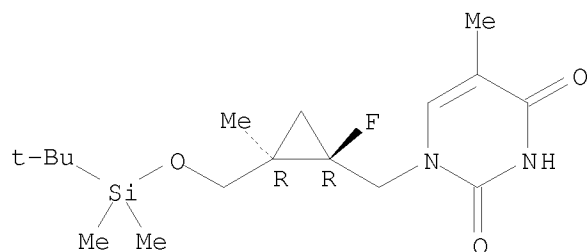
10/585,283



OSC.G	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT	15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

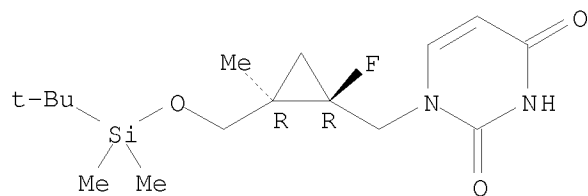
L11 ANSWER 13 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:403424 CAPLUS
 DN 147:53090
 TI Synthesis and antiviral activity of C-fluoro-branched cyclopropyl nucleosides
 AU Kim, Aihong; Hong, Joon Hee
 CS College of Pharmacy, Chosun University, Kwangju, 501-759, S. Korea
 SO European Journal of Medicinal Chemistry (2007), 42(4), 487-493
 CODEN: EJMCA5; ISSN: 0223-5234
 PB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 147:53090
 AB A series of novel fluorocyclopropyl nucleosides were synthesized starting from acetol using the Simmons-Smith reaction as a key reaction. All the nucleosides synthesized were assayed against several viruses. Among the compds. synthesized, I, (B is uracil), showed moderate anti-HCMV activity (10.61 µg/mL, in AD-169).
 IT 940003-91-8P 940003-92-9P 940003-95-2P
 940003-96-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis, cytotoxicity and antiviral activity of C-fluoro-branched cyclopropyl nucleosides)
 RN 940003-91-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluoro-2-methylcyclopropyl]methyl]-5-methyl-, rel- (CA INDEX NAME)

Relative stereochemistry.



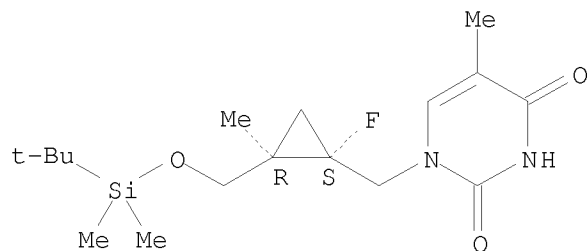
RN 940003-92-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluoro-2-methylcyclopropyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



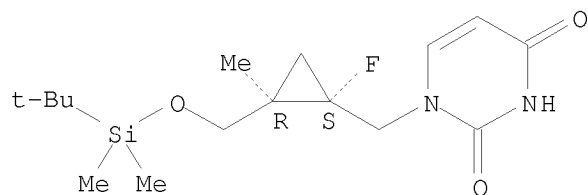
RN 940003-95-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2S)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluoro-2-methylcyclopropyl]methyl]-5-methyl-, rel- (CA INDEX NAME)

Relative stereochemistry.



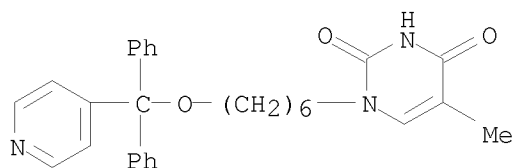
RN 940003-96-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2S)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1-fluoro-2-methylcyclopropyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



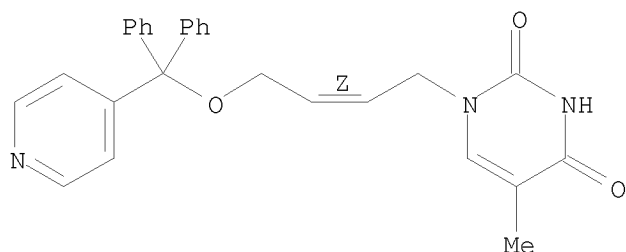
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:1288478 CAPLUS
 DN 146:176173
 TI N1-Substituted Thymine Derivatives as Mitochondrial Thymidine Kinase (TK-2) Inhibitors
 AU Hernandez, Ana-Isabel; Familiar, Olga; Negri, Ana; Rodriguez-Barrios, Fatima; Gago, Federico; Karlsson, Anna; Camarasa, Maria-Jose; Balzarini, Jan; Perez-Perez, Maria-Jesus
 CS Instituto de Quimica Medica (C.S.I.C.), Madrid, E-28006, Spain
 SO Journal of Medicinal Chemistry (2006), 49(26), 7766-7773
 CODEN: JMCMAR; ISSN: 0022-2625
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 146:176173
 AB Novel N1-substituted thymine derivs. related to 1-[(Z)-4-(triphenylmethoxy)-2-butenyl]thymine have been synthesized and evaluated against thymidine kinase-2 (TK-2) and related nucleoside kinases [i.e., Drosophila melanogaster deoxynucleoside kinase (Dm-dNK) and herpes simplex virus type 1 thymidine kinase (HSV-1 TK)]. The thymine base has been tethered to a distal triphenylmethoxy moiety through a polymethylene chain (n = 3-8) or through a (2-ethoxy)ethyl spacer. Moreover, substitutions at position 4 of one of the Ph rings of the triphenylmethoxy moiety have been performed. Compds. with a hexamethylene spacer (I, II, and III) displayed the highest inhibitory values against TK-2 (IC50 = 0.3-0.5 μ M). Compound II competitively inhibited TK-2 with respect to thymidine and uncompetitively with respect to ATP. A rationale for the biol. data was provided by docking some representative inhibitors into a homol.-based model of human TK-2. Moreover, two of the most potent TK-2 inhibitors, I and II, that also inhibit HSV-1 TK were able to reverse the cytostatic activity of 1-(β -D-arabinofuranosyl)thymine (Ara-T) and ganciclovir in HSV-1 TK-expressing OST-TK-/HSV-1 TK+ cell cultures.
 IT 892392-58-4P 921588-11-6P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (N1-substituted thymine derivs. as mitochondrial thymidine kinase (TK-2) inhibitors)
 RN 892392-58-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-(diphenyl-4-pyridinylmethoxy)hexyl]-5-methyl- (CA INDEX NAME)

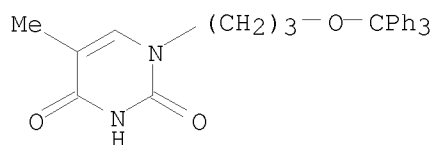


RN 921588-11-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z)-4-(diphenyl-4-pyridinylmethoxy)-2-buten-1-yl]-5-methyl- (CA INDEX NAME)

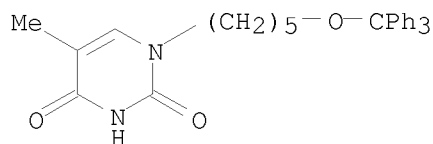
Double bond geometry as shown.



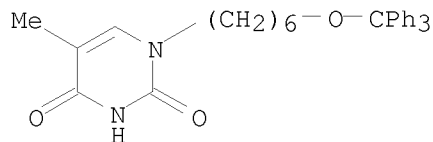
IT 921587-91-9P 921587-92-0P 921587-93-1P
 921587-94-2P 921587-99-7P 921588-00-3P
 921588-07-0P 921588-10-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (N1-substituted thymine derivs. as mitochondrial thymidine kinase
 (TK-2) inhibitors)
 RN 921587-91-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[3-(triphenylmethoxy)propyl]- (CA
 INDEX NAME)



RN 921587-92-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[5-(triphenylmethoxy)pentyl]- (CA
 INDEX NAME)

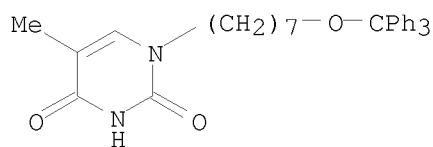


RN 921587-93-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[6-(triphenylmethoxy)hexyl]- (CA
 INDEX NAME)



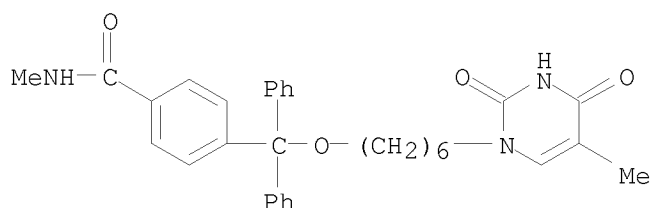
RN 921587-94-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[7-(triphenylmethoxy)heptyl]- (CA
 INDEX NAME)

INDEX NAME)



RN 921587-99-7 CAPLUS

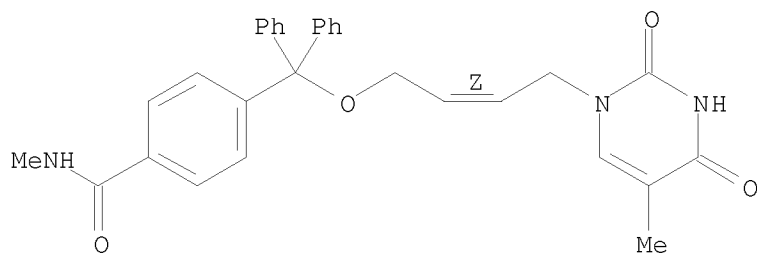
CN Benzamide, 4-[[[6-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)hexyl]oxy]diphenylmethyl]-N-methyl- (CA INDEX NAME)



RN 921588-00-3 CAPLUS

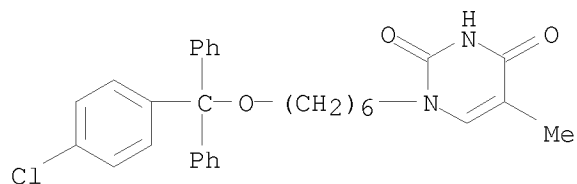
CN Benzamide, 4-[[[(2Z)-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-buten-1-yl]oxy]diphenylmethyl]-N-methyl- (CA INDEX NAME)

Double bond geometry as shown.



RN 921588-07-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(4-chlorophenyl)diphenylmethoxy]hexyl]-5-methyl- (CA INDEX NAME)

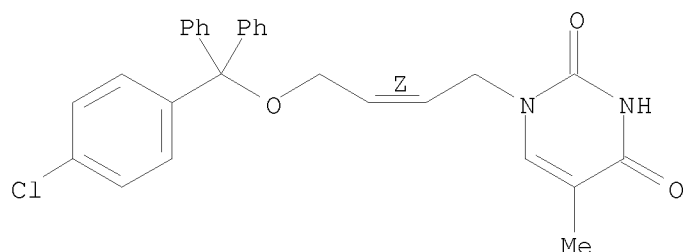


RN 921588-10-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z)-4-[(4-chlorophenyl)diphenylmethoxy]-2-buten-1-yl]-5-methyl- (CA INDEX NAME)

buten-1-yl]-5-methyl- (CA INDEX NAME)

Double bond geometry as shown.



IT 471256-44-7

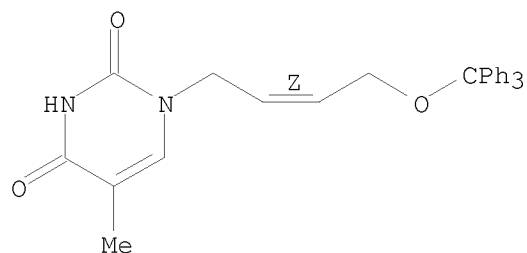
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(N1-substituted thymine derivs. as mitochondrial thymidine kinase
(TK-2) inhibitors)

RN 471256-44-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-
1-yl]- (CA INDEX NAME)

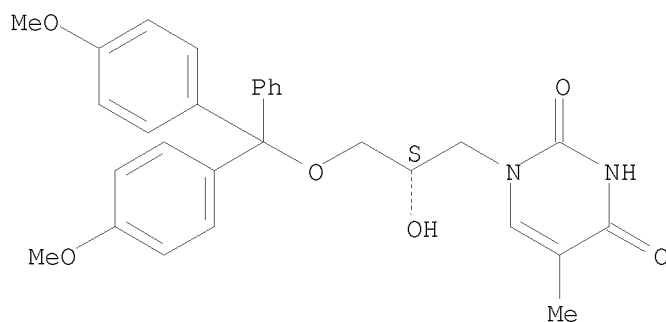
Double bond geometry as shown.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

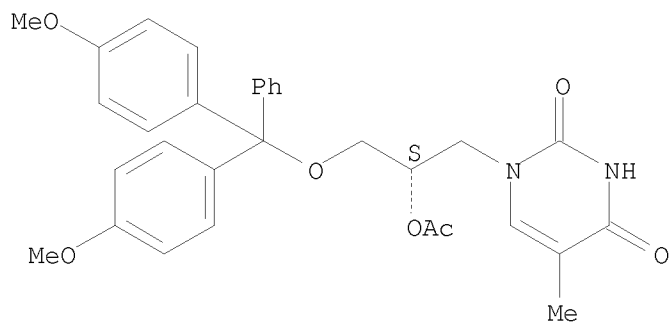
L11 ANSWER 15 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:1079301 CAPLUS
 DN 146:45683
 TI Glycerol Nucleoside Triphosphates: Synthesis and Polymerase Substrate Activities
 AU Horhota, Allen T.; Szostak, Jack W.; McLaughlin, Larry W.
 CS Department of Chemistry, Merkert Chemistry Center, Boston College, Chestnut Hill, MA, 02467, USA
 SO Organic Letters (2006), 8(23), 5345-5347
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 146:45683
 AB The synthesis of (S)-glycerol nucleoside triphosphates (gNTPs) and the anal. of their substrate activities for enzymic polymerization is described. NTPs with simplified carbohydrate backbones such as the tNTPs (α -L-threose-NTPs) are polymerase substrates and offer the potential to create non-natural aptamer sequences with simplified backbones through enzymic means. The acyclic (S)-GNA was modeled after the shortened α -threofuranosyl backbone. Here we describe the synthesis of (S)-glycerol NTPs and initial enzymic testing of this further simplified nucleic acid backbone.
 IT 168332-12-5P 916599-30-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (glycerol nucleoside triphosphates synthesis and polymerase substrate activities)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



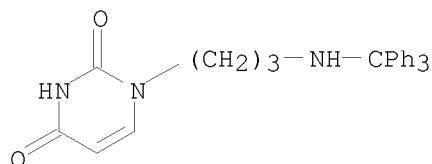
RN 916599-30-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-2-(acetyloxy)-3-[bis(4-methoxyphenyl)phenylmethoxy]propyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

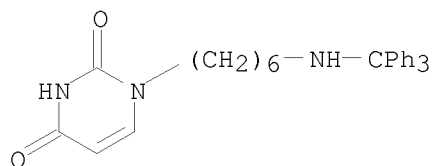


OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:593384 CAPLUS
 DN 145:201965
 TI Acyclic Nucleoside Analogues as Inhibitors of Plasmodium falciparum dUTPase
 AU Nguyen, Corinne; Ruda, Gian Filippo; Schipani, Alessandro; Kasinathan, Ganasan; Leal, Isabel; Musso-Buendia, Alexander; Kaiser, Marcel; Brun, Reto; Ruiz-Perez, Luis M.; Sahlberg, Britt-Louise; Johansson, Nils Gunnar; Gonzalez-Pacanowska, Dolores; Gilbert, Ian H.
 CS Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK
 SO Journal of Medicinal Chemistry (2006), 49(14), 4183-4195
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 145:201965
 AB We report the discovery of novel uracil-based acyclic compds. as inhibitors of deoxyuridine 5'-triphosphate nucleotidohydrolase (dUTPase), an enzyme involved in nucleotide metabolism that has been identified as a promising target for the development of antimalarial drugs. Compds. were assayed against both P. falciparum dUTPase and intact parasites. A good correlation was observed between enzyme inhibition and cellular assays. Acyclic uracil derivs. were identified that showed greater or similar potency and in general increased selectivity compared to previously reported inhibitors. The most active compound reported here against the P. falciparum enzyme had a K_i of 0.2 μM . Mol. modeling studies provided a good rationale for the observed activities. Preliminary ADME studies indicated that some of the lead compds. are drug-like mols. These compds. are useful tools for further investigating P. falciparum dUTPase for the development of much-needed novel antimalarial drugs.
 IT 860266-93-9P 860266-94-0P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (Acyclic Nucleoside Analogs as Inhibitors of Plasmodium falciparum dUTPase)
 RN 860266-93-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylmethyl)amino]propyl]- (CA INDEX NAME)



RN 860266-94-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylmethyl)amino]hexyl]- (CA INDEX NAME)



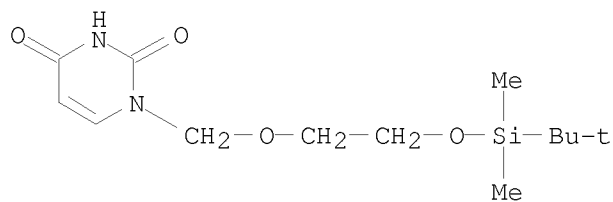
IT 121749-94-8P 860266-80-4P 860266-81-5P
 860266-83-7P 860266-84-8P 860266-85-9P
 860266-86-0P 860266-87-1P 860266-88-2P
 860266-89-3P 860266-90-6P 860266-91-7P
 860266-92-8P 860266-96-2P 860267-03-4P
 860267-09-0P 860267-11-4P 904907-21-7P
 904907-23-9P 904907-27-3P 904907-28-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Acyclic Nucleoside Analogs as Inhibitors of Plasmodium falciparum dUTPase)

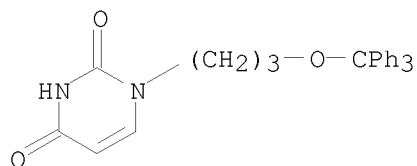
RN 121749-94-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)



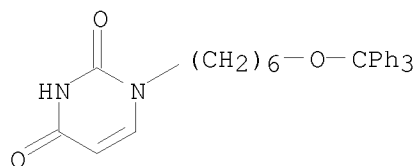
RN 860266-80-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



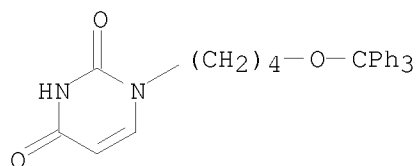
RN 860266-81-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-(triphenylmethoxy)hexyl]- (CA INDEX NAME)



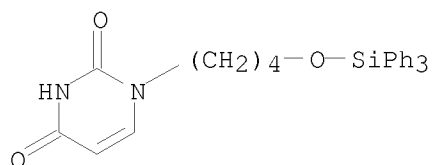
RN 860266-83-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



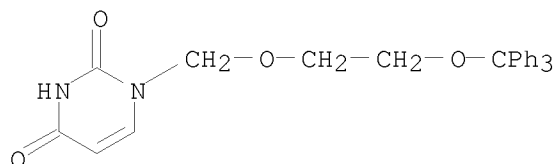
RN 860266-84-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylsilyl)oxy]butyl]- (CA INDEX NAME)



RN 860266-85-9 CAPLUS

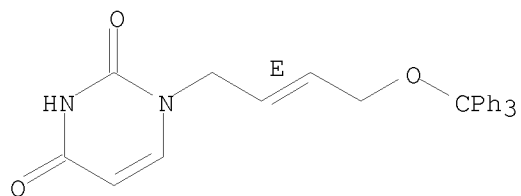
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(triphenylmethoxy)ethoxy]methyl]- (CA INDEX NAME)



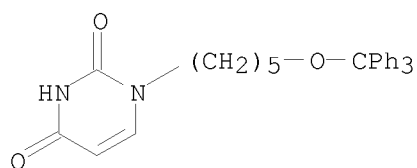
RN 860266-86-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2E)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

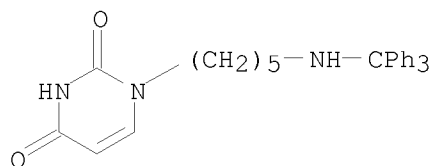
Double bond geometry as shown.



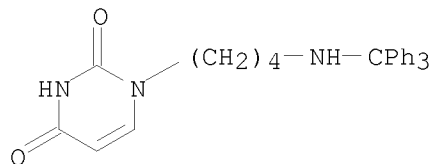
RN 860266-87-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-(triphenylmethoxy)pentyl]- (CA INDEX NAME)



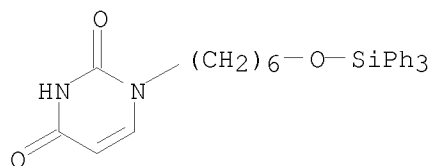
RN 860266-88-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylmethyl)amino]pentyl]- (CA INDEX NAME)



RN 860266-89-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)

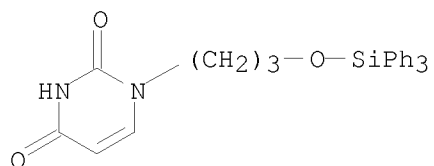


RN 860266-90-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylsilyl)oxy]hexyl]- (CA INDEX NAME)



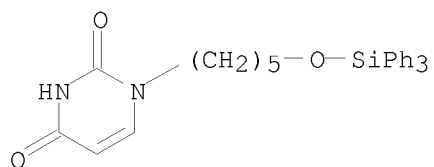
RN 860266-91-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylsilyl)oxy]propyl]- (CA INDEX NAME)



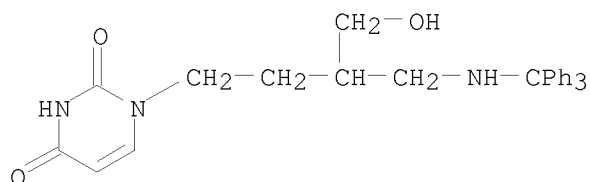
RN 860266-92-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylsilyl)oxy]pentyl]- (CA INDEX NAME)



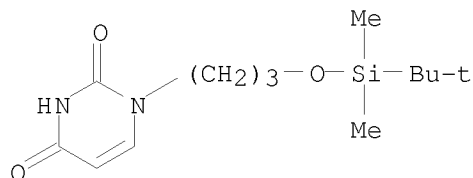
RN 860266-96-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(hydroxymethyl)-4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



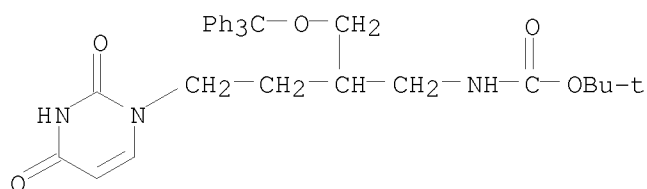
RN 860267-03-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[[1,1-dimethylethyl)dimethylsilyl]oxy]propyl]- (CA INDEX NAME)



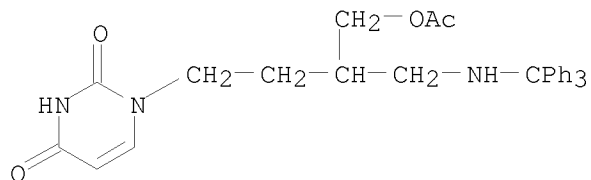
RN 860267-09-0 CAPLUS

CN Carbamic acid, [4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-2-[(triphenylmethoxy)methyl]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



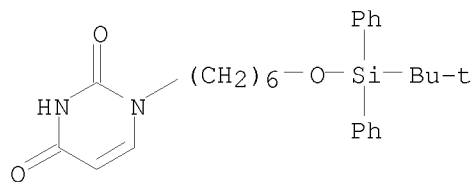
RN 860267-11-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(acetyloxy)methyl]-4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



RN 904907-21-7 CAPLUS

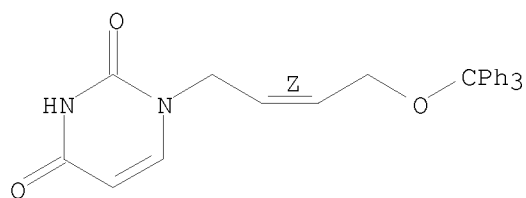
CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]hexyl]- (CA INDEX NAME)



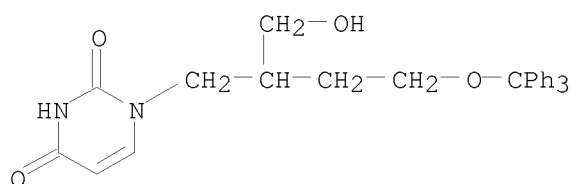
RN 904907-23-9 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

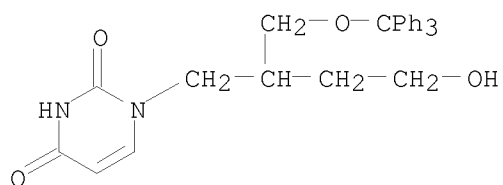
Double bond geometry as shown.



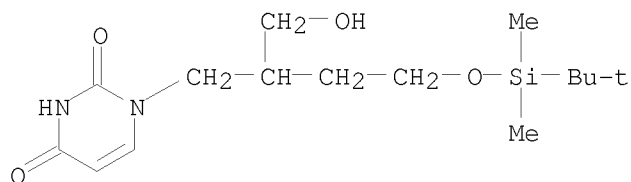
RN 904907-27-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(hydroxymethyl)-4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



RN 904907-28-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-hydroxy-2-[(triphenylmethoxy)methyl]butyl]- (CA INDEX NAME)



IT 904907-35-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Acyclic Nucleoside Analogs as Inhibitors of Plasmodium falciparum dUTPase)
 RN 904907-35-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-(hydroxymethyl)butyl]- (CA INDEX NAME)



IT 860266-98-4P 860266-99-5P 860267-00-1P
 860267-01-2P 904907-36-4P 904907-37-5P
 904907-39-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

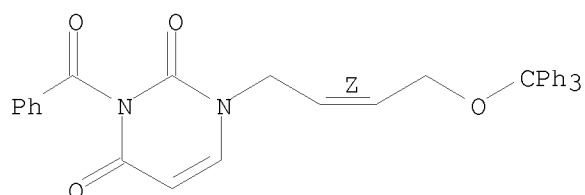
(Reactant or reagent)

(Acyclic Nucleoside Analogs as Inhibitors of Plasmodium falciparum
dUTPase)

RN 860266-98-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

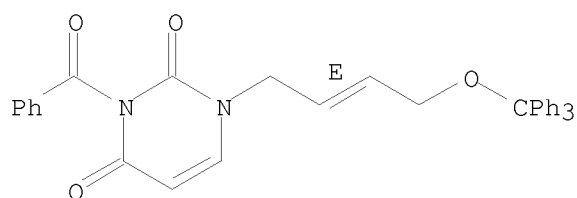
Double bond geometry as shown.



RN 860266-99-5 CAPLUS

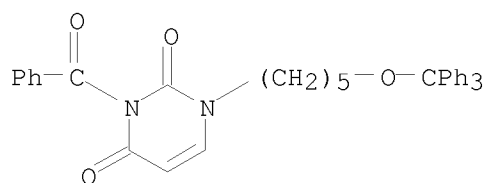
CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[(2E)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



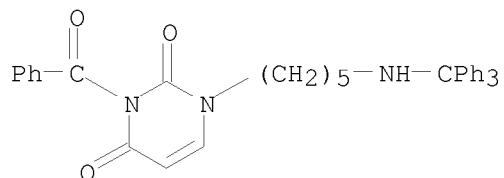
RN 860267-00-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[5-(triphenylmethoxy)pentyl]- (CA INDEX NAME)



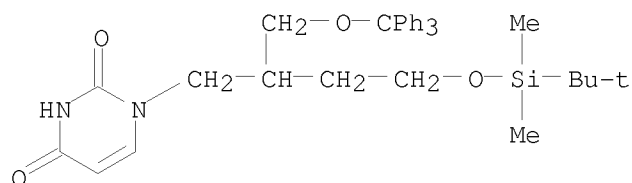
RN 860267-01-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[5-[(triphenylmethyl)amino]pentyl]- (CA INDEX NAME)



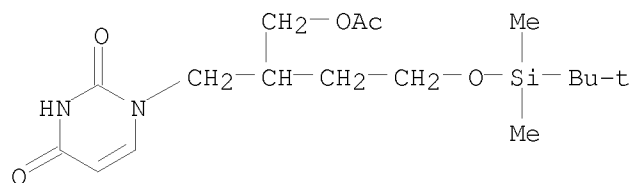
RN 904907-36-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[(triphenylmethoxy)methyl]butyl]- (CA INDEX NAME)



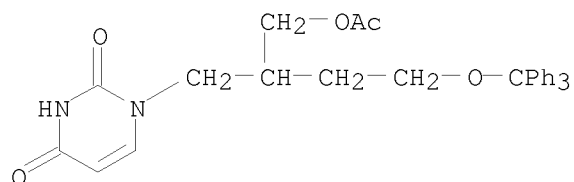
RN 904907-37-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[(acetyloxy)methyl]-4-[(1,1-dimethylethyl)dimethylsilyl]oxy]butyl]- (CA INDEX NAME)



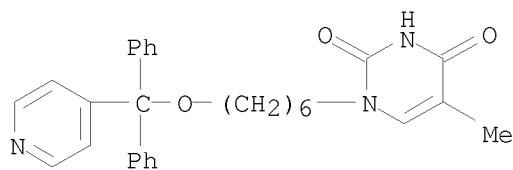
RN 904907-39-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[(acetyloxy)methyl]-4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

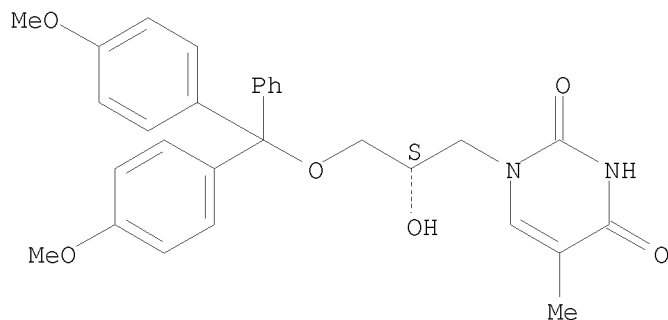
L11 ANSWER 17 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:391440 CAPLUS
 DN 145:78652
 TI Bromovinyl-deoxyuridine: A selective substrate for mitochondrial thymidine kinase in cell extracts
 AU Franzolin, Elisa; Rampazzo, Chiara; Perez-Perez, Maria-Jesus; Hernandez, Ana-Isabel; Balzarini, Jan; Bianchi, Vera
 CS Department of Biology, University of Padova, Padua, 35131, Italy
 SO Biochemical and Biophysical Research Communications (2006), 344(1), 30-36
 CODEN: BBRCA9; ISSN: 0006-291X
 PB Elsevier
 DT Journal
 LA English
 AB Cellular models of mitochondrial thymidine kinase (TK2) deficiency require a reliable method to measure TK2 activity in whole cell exts. containing two interfering deoxyribonucleoside kinases, thymidine kinase 1 (TK1) and deoxycytidine kinase. We tested the value of the thymidine analog (E)-5-(2-bromovinyl)-2'-deoxyuridine (BVDU) as a TK2-specific substrate. With exts. of OSTTK1- cells containing TK2 as the only thymidine kinase and a highly specific TK2 inhibitor we established conditions to detect the low TK2 activity commonly present in cells. With exts. of TK1-proficient osteosarcoma cells and normal human fibroblasts we showed that BVDU, but not 1-(β-D-arabinofuranosyl)thymine (Ara-T), discriminates TK2 activity even in the presence of 100-fold excess TK1. A comparison with current procedures based on TK2 inhibition demonstrated the better performance of the new TK2 assay. When cultured human fibroblasts passed from proliferation to quiescence TK2 activity increased by 3-fold, stressing the importance of TK2 function in the absence of TK1.
 IT 892392-58-4, KIN 109
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitor; phosphorylation of substrate by thymidine kinase)
 RN 892392-58-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-(diphenyl-4-pyridinylmethoxy)hexyl]-5-methyl- (CA INDEX NAME)



OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

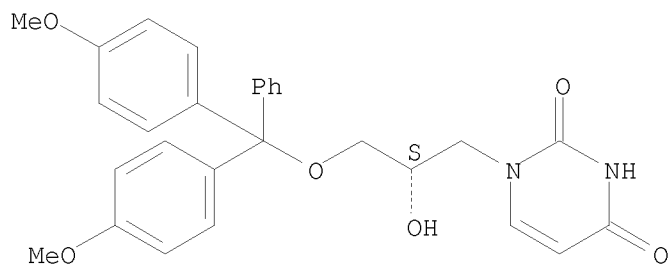
L11 ANSWER 18 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:220103 CAPLUS
 DN 144:450868
 TI Synthesis of glycol nucleic acids
 AU Zhang, Lilu; Peritz, Adam E.; Carroll, Patrick J.; Meggers, Eric
 CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA,
 19104, USA
 SO Synthesis (2006), (4), 645-653
 CODEN: SYNTBF; ISSN: 0039-7881
 PB Georg Thieme Verlag
 DT Journal
 LA English
 OS CASREACT 144:450868
 AB Starting from glycidol, the synthesis of dimethoxytritylated glycol
 nucleoside phosphoramidites of adenine (A), thymine (T), uracil (U),
 guanine (G), and cytosine (C) is reported. These phosphoramidites are the
 building blocks for the automated solid phase synthesis of glycol nucleic
 acids (GNA) oligonucleotides and it is demonstrated that derived GNA
 duplexes with completely acyclic backbones considerably exceed the thermal
 stabilities of analogous DNA duplexes.
 IT 168332-12-5P 494784-12-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (solid phase synthesis and GNA duplex thermal stability of glycol
 nucleic acids)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-
 2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



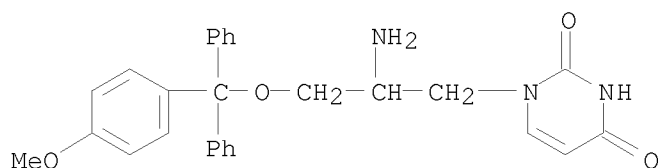
RN 494784-12-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-
 2-hydroxypropyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



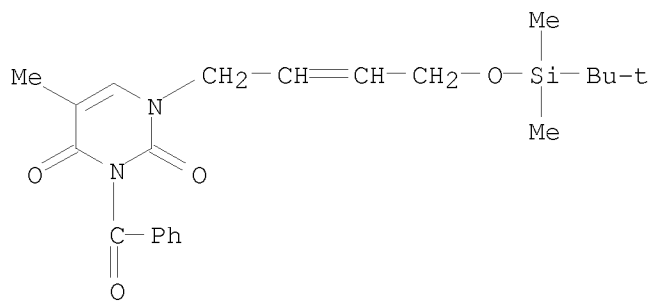
OSC.G	15	THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
RE.CNT	34	THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:186166 CAPLUS
 DN 146:142935
 TI Synthesis of aminopropyl phosphonate nucleosides with purine and pyrimidine bases
 AU Zhou, Ding; Lagoja, Irene M.; Van Aerschot, Arthur; Herdewijn, Piet
 CS Laboratory of Medicinal Chemistry, Rega Institute Louvain, B-3000, Belg.
 SO Collection of Czechoslovak Chemical Communications (2006), 71(1), 15-34
 CODEN: CCCCAK; ISSN: 0010-0765
 PB Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic
 DT Journal
 LA English
 OS CASREACT 146:142935
 AB The synthesis and antiviral evaluation of new acyclic phosphonate nucleosides, e.g. I, II and II, related to HPMPC (Cidofovir) has been described. These aminopropyl phosphonate nucleosides have an amino function within either the acyclic chain or as substituent. Both purine and pyrimidine nucleotide analogs have been synthesized. In contrast to HPMPC the oxygen analog of II, only a weak antiherpes virus activity could be demonstrated for II and its guanine analog.
 IT 918869-00-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and antiviral activity of aminopropyl acyclic nucleotide phosphonates via phosphorylation and Mitsunobu reaction)
 RN 918869-00-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-amino-3-[(4-methoxyphenyl)diphenylmethoxy]propyl]- (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

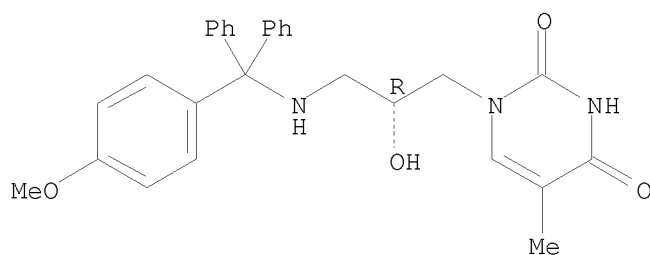
L11 ANSWER 20 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:135823 CAPLUS
 DN 144:391288
 TI Regioselective and enantiospecific rhodium-catalyzed allylic amination
 with thymine: synthesis of a new conformationally rigid nucleoside
 AU Evans, P. Andrew; Lai, Kwong Wah; Zhang, Hai-Ren; Haffman, John C.
 CS Department of Chemistry, Indiana University, Bloomington, IN 47405, USA
 SO Chemical Communications (Cambridge, United Kingdom) (2006), (8), 844-846
 CODEN: CHCOFS; ISSN: 1359-7345
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 144:391288
 AB The regioselective and enantiospecific rhodium-catalyzed allylic amination
 of secondary allylic carbonates with N3-benzoyl thymine in conjunction
 with a stereoselective free radical cyclization provides a convenient
 method for the construction of a new conformationally rigid nucleoside,
 e.g. 1.
 IT 882659-64-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (regioselective and enantiospecific rhodium-catalyzed allylic amination
 with thymine synthesis of conformationally rigid nucleoside)
 RN 882659-64-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[4-[[1,1-
 dimethylethyl)dimethylsilyl]oxy]-2-buten-1-yl]-5-methyl- (CA INDEX NAME)



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
 RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 21 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:1327007 CAPLUS
 DN 146:100965
 TI Synthesis and properties of aminopropyl nucleic acids
 AU Zhou, Ding; Lagoja, Irene M.; Rozenski, Jef; Busson, Roger; Van Aerschot, Arthur; Herdewijn, Piet
 CS Laboratory of Medicinal Chemistry, Rega Institute for Medical Research, K.U. Leuven, Louvain, 3000, Belg.
 SO ChemBioChem (2005), 6(12), 2298-2304
 CODEN: CBOHFX; ISSN: 1439-4227
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 OS CASREACT 146:100965
 AB Oligonucleotides that contain up to three aminopropyl nucleoside analogs have been synthesized. Dimers of aminopropyl adenine (R)- and (S)-I, and dimers of aminopropyl thymidine (R)- and (S)-II, were prepared and used as building blocks by applying phosphoramidite chemical. Both R and S isomers of the aminopropyl nucleosides were used. This incorporation led to a reduction of thermal stability of double-stranded DNA. Furthermore, the (R)-adenine analog, which yielded (S)-APNA, can be considered as a candidate for universal base pairing.
 IT 917359-18-3P 917359-24-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and thermal stability of aminopropyl oligonucleotides and nucleic acids)
 RN 917359-18-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R)-2-hydroxy-3-[(4-methoxyphenyl)diphenylmethyl]amino]propyl]-5-methyl- (CA INDEX NAME)

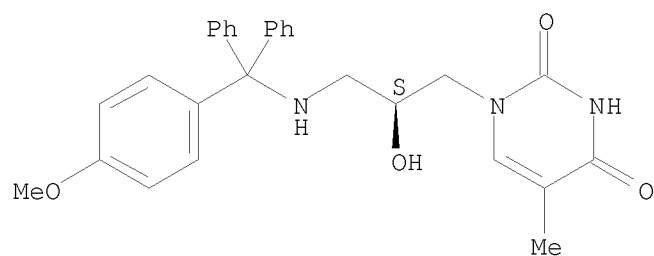
Absolute stereochemistry.



RN 917359-24-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-2-hydroxy-3-[(4-methoxyphenyl)diphenylmethyl]amino]propyl]-5-methyl- (CA INDEX NAME)

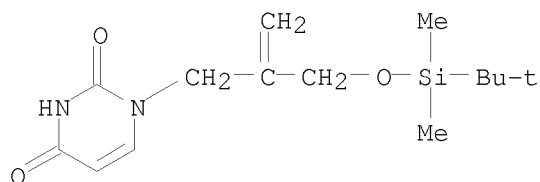
Absolute stereochemistry.

10/585,283

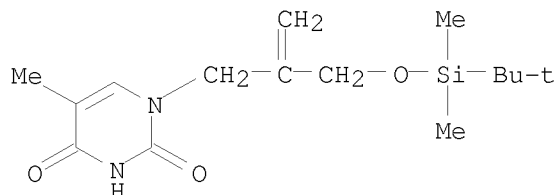


OSC.G	13	THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
RE.CNT	20	THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 22 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:1319229 CAPLUS
 DN 145:211282
 TI Synthesis and antiviral evaluation of novel exo-methylene acyclic nucleosides and phosphonic acid nucleosides
 AU Kim, Aihong; Hong, Joon Hee
 CS College of Pharmacy, Chosun University, Kwangju, S. Korea
 SO Archiv der Pharmazie (Weinheim, Germany) (2005) 338(11), 528-533
 CODEN: ARPMAS; ISSN: 0365-6233
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 OS CASREACT 145:211282
 AB This paper describes a very simple synthesis route of novel acyclic nucleosides and phosphonic acid nucleosides, e.g. I. The condensation of the mesylates II with the natural nucleosidic bases (A, C, U, T) under nucleophilic substitution (K₂CO₃, 18-crown-6, DMF) and deprotection afforded the target nucleosides and phosphonic acid nucleosides. In addition, these compds. were evaluated for their antiviral properties against various viruses. Uracil derivative 24 shows significant anti-HCMV activity (EC₅₀ = 10.24 μM).
 IT 905306-22-1P 905306-23-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and antiviral evaluation of novel exomethylene acyclic nucleosides and phosphonic acid nucleosides)
 RN 905306-22-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy)methyl]-2-propen-1-yl]- (CA INDEX NAME)



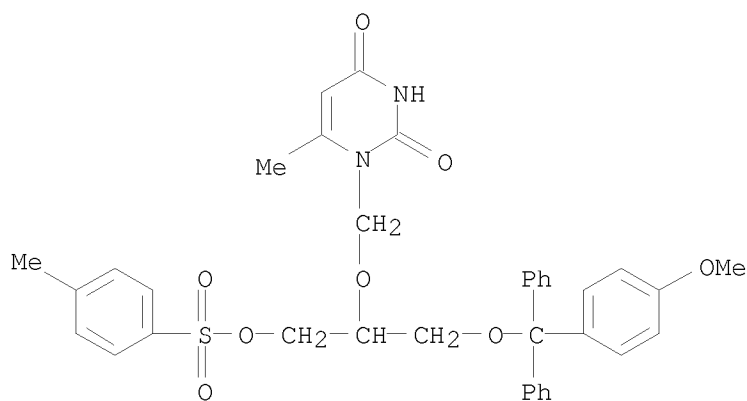
RN 905306-23-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy)methyl]-2-propen-1-yl]-5-methyl- (CA INDEX NAME)



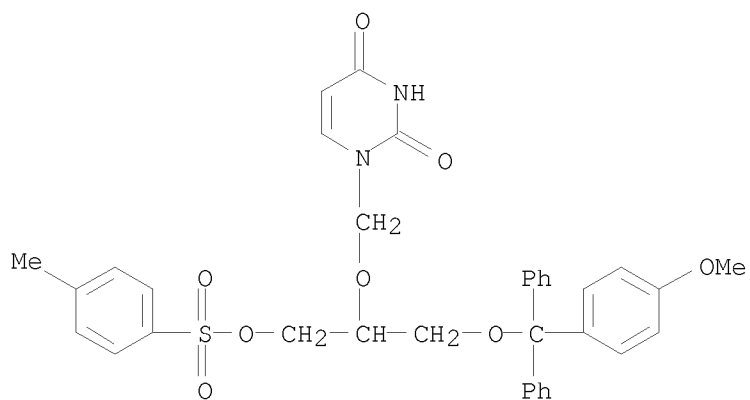
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/585,283

L11 ANSWER 23 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:1316207 CAPLUS
 DN 146:82126
 TI Synthesis of 18F-labeled acyclic purine and pyrimidine nucleosides intended for monitoring gene expression
 AU Grote, M.; Noll, B.; Noll, St.
 CS Forschungszentrum Rossendorf e.V., Institut fuer Bioanorganische und Radiopharmazeutische Chemie, Dresden, 01314, Germany
 SO Radiochimica Acta (2005), 93(9-10), 585-588
 CODEN: RAACAP; ISSN: 0033-8230
 PB Oldenbourg Wissenschaftsverlag GmbH
 DT Journal
 LA English
 OS CASREACT 146:82126
 AB Non-invasive imaging of genes which are introduced into cells is a useful method for gene therapy monitoring. The labeling of acyclic purine and pyrimidine nucleoside derivs., e.g. I and II, with fluorine-18 required for the HSV-1 tk imaging approach with positron emission tomog. (PET) is described. The methoxytritylated and tosylated precursors were radiolabeled using a K[18F]F/kryptofix 2.2.2 complex, followed by removal of the protecting groups under acidic conditions and HPLC purification. The radiochem. yields of the 18F-tracers amount to 5%-15% (decay corrected) after a synthesis time of 85-95 min; the radiochem. purity was > 98% with an average specific activity of 19 GBq/μmol at the end of synthesis.
 IT 718633-27-3 917084-43-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of 18F-labeled acyclic purine and pyrimidine nucleosides via nucleophilic fluorination and demethoxytritylation)
 RN 718633-27-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[1-[[[4-methoxyphenyl]diphenylmethoxy]methyl]-2-[[4-methylphenyl)sulfonyl]oxy]ethoxy]methyl]-6-methyl- (CA INDEX NAME)



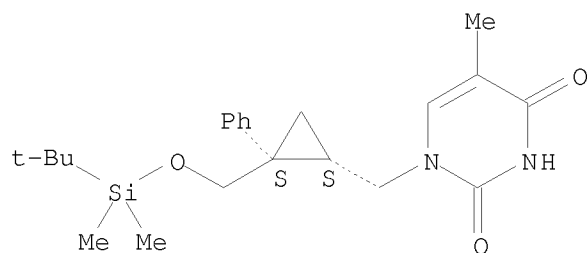
RN 917084-43-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[1-[[[4-methoxyphenyl]diphenylmethoxy]methyl]-2-[[4-methylphenyl)sulfonyl]oxy]ethoxy]methyl]-6-methyl- (CA INDEX NAME)



OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT	12	THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

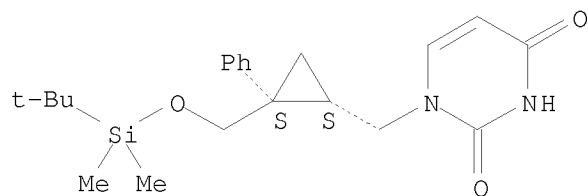
L11 ANSWER 24 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:1032043 CAPLUS
 DN 145:8369
 TI Synthesis and anti-HIV activity of novel phenyl branched cyclopropyl nucleosides
 AU Wu, Ying; Hong, Joon Hee
 CS College of Pharmacy, Chosun University, Kwangju, 501-759, S. Korea
 SO Farmaco (2005), 60(9), 739-744
 CODEN: FRNCE8, ISSN: 0014-827X
 PB Editions Scientifiques et Medicales Elsevier
 DT Journal
 LA English
 OS CASREACT 145:8369
 AB Novel Ph branched cyclopropyl nucleoside analogs were designed and synthesized as potential antiviral agents. Cyclopropanation was performed via classical Simmons-Smith reaction using Zn(Et)₂ and CH₂I₂. Coupling of the mesylates with natural bases (A,C,T,U) and desilylation afforded a series of novel cyclopropyl nucleosides. The synthesized compds. were evaluated for their antiviral and antitumor activity against various viruses such as HIV, HSV-1, HSV-2 and HCMV.
 IT 888229-15-0P 888229-16-1P 888229-19-4P
 888229-20-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis Ph branched cyclopropyl nucleosides and their antiviral and antitumor activity against HIV, HSV-1, HSV-2 and HCMV)
 RN 888229-15-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-phenylcyclopropyl]methyl]-5-methyl-, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 888229-16-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-phenylcyclopropyl]methyl]-, rel- (CA INDEX NAME)

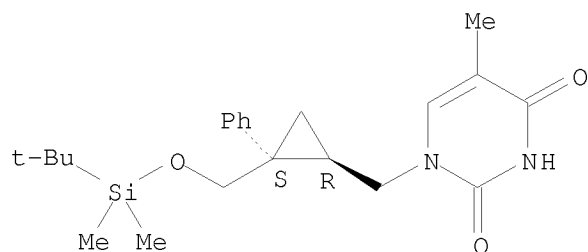
Relative stereochemistry.



RN 888229-19-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2S)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-phenylcyclopropyl]methyl]-5-methyl-, rel- (CA INDEX NAME)

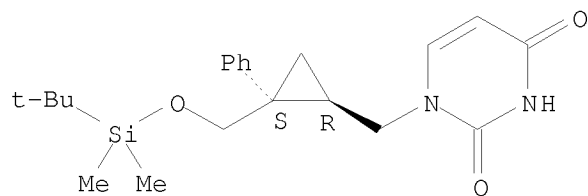
Relative stereochemistry.



RN 888229-20-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2S)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-phenylcyclopropyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
 RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 25 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:638741 CAPLUS

DN 143:153391

TI Preparation of pyrimidinediones as deoxyuridine triphosphate nucleotidohydrolase (dUTPase) inhibitors for treatment of parasitic infections.

IN Gilbert, Ian; Nguyen, Corinne; Ruda, Gian Filippo; Schhipani, Alessandro; Kasinathan, Ganasan; Johansson, Nils-Gunnar; Pacanowska, Dolores Gonzales

PA Medivir AB, Swed.

SO PCT Int. Appl., 76 pp.

Applicant's

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005065689	A1	20050721	WO 2005-GB50002	20050106
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1701727	A1	20060920	EP 2005-702147	20050106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, <u>GE, EE, HU, PL, SK, IS</u>				
	US 20080312183	A1	20081218	US 2006-585283	20061002
PRAI	GB 2004-290	A	20040108		
	WO 2005-GB50002	W	20050106		

OS CASREACT 143:153391; MARPAT 143:153391

AB Title compds. [I; A = C0-3 alkylene; R1 = H, (substituted) alkyl, alkenyl, alkynyl, (hetero)cyclyl; D = NHCO, O, CO, CH:CH, C.tplbond.C, NR5; R4 = H, halo, cyano, amino, NO2, CO2H, OH, carbamoyl, O, alkyl, haloalkyl, alkanoyl, alkanoyloxy, carboxymethyl, etc.; R5 = H, alkyl, alkanoyl; E = Si, C; R6, R7, R8 = alkyl, alkenyl, alkynyl, (unsatd.) mono-, bi-, tricyclic ring; G = O, S, CHR10, CO; J = CH2, or when G = CHR10 may also = O, NH; R10 = H, F, Me, CH2NH2, CH2OH, OH, ether, ester, or amide thereof; R11 = H, F, Me, CH2NH2, CH2OH, CH(OH)Me, CH(NH2)Me; R10R11 = olefinic bond, CH2 defining a cis or trans cyclopropyl group], were prepared Thus, 1-(4-hydroxybutyl)uracil was stirred with trityl chloride and DMAP in pyridine at 60° for 64 h to give 86% 1-(4-trityloxybutyl)uracil. The latter inhibited Plasmodium falciparum dUTPase with Ki = 1.62 µM, with 617-fold selectivity over human dUTPase.

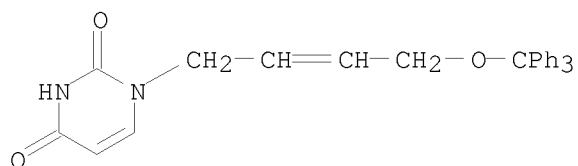
IT	860266-79-1P	860266-80-4P	860266-81-5P
	860266-83-7P	860266-84-8P	860266-85-9P
	860266-86-0P	860266-87-1P	860266-88-2P
	860266-89-3P	860266-90-6P	860266-91-7P
	860266-92-8P	860266-93-9P	860266-94-0P
	860266-95-1P	860266-96-2P	860266-97-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidinediones as deoxyuridine triphosphate
nucleotidohydrolase inhibitors for treatment of parasitic infections)

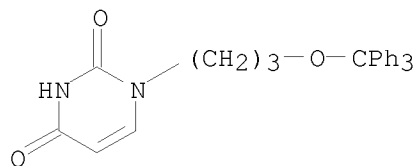
RN 860266-79-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-(triphenylmethoxy)-2-buten-1-yl]- (CA
INDEX NAME)



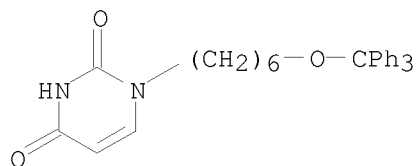
RN 860266-80-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(triphenylmethoxy)propyl]- (CA INDEX
NAME)



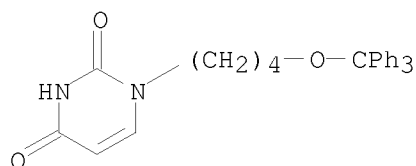
RN 860266-81-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-(triphenylmethoxy)hexyl]- (CA INDEX
NAME)



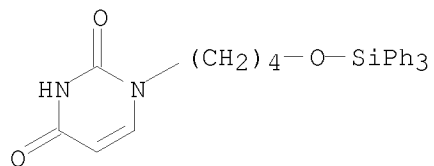
RN 860266-83-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-(triphenylmethoxy)butyl]- (CA INDEX
NAME)

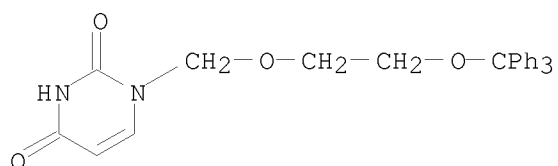


RN 860266-84-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylsilyl)oxy]butyl]- (CA INDEX
NAME)

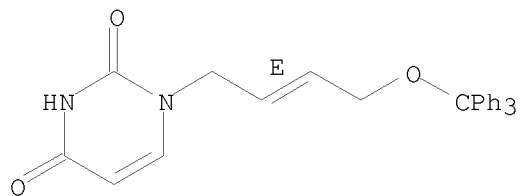


RN 860266-85-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(triphenylmethoxy)ethoxy]methyl]- (CA INDEX NAME)

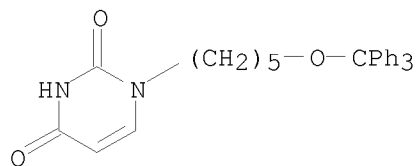


RN 860266-86-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2E)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

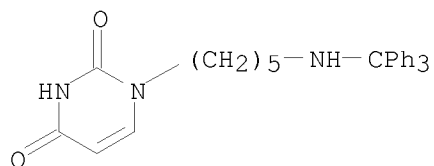
Double bond geometry as shown.



RN 860266-87-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-(triphenylmethoxy)pentyl]- (CA INDEX NAME)

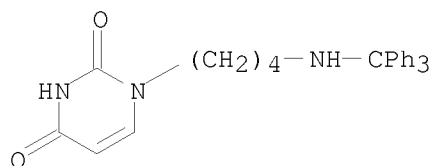


RN 860266-88-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylmethyl)amino]pentyl]- (CA INDEX NAME)



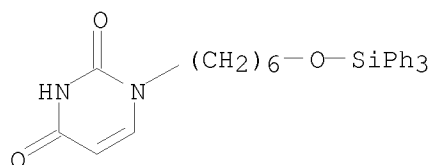
RN 860266-89-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



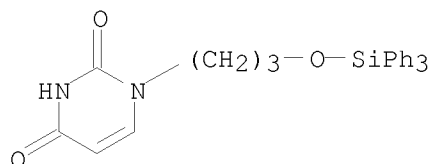
RN 860266-90-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylsilyl)oxy]hexyl]- (CA INDEX NAME)



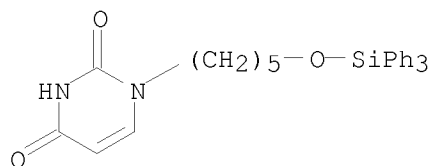
RN 860266-91-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylsilyl)oxy]propyl]- (CA INDEX NAME)



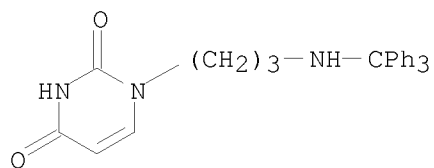
RN 860266-92-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[(triphenylsilyl)oxy]pentyl]- (CA INDEX NAME)



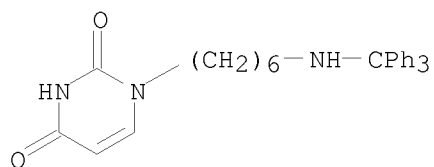
RN 860266-93-9 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(triphenylmethyl)amino]propyl]- (CA INDEX NAME)



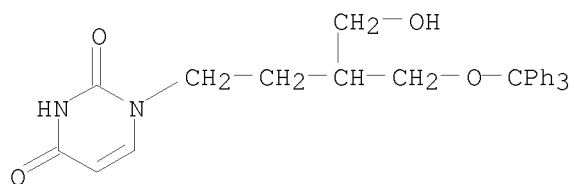
RN 860266-94-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[6-[(triphenylmethyl)amino]hexyl]- (CA INDEX NAME)



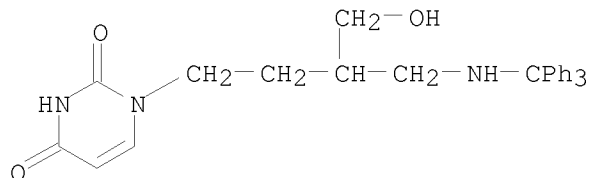
RN 860266-95-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(hydroxymethyl)-4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



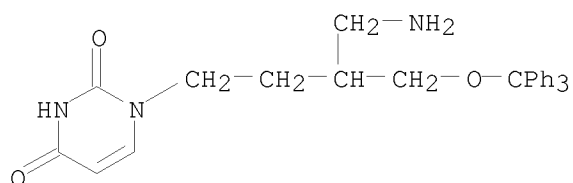
RN 860266-96-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(hydroxymethyl)-4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



RN 860266-97-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(aminomethyl)-4-(triphenylmethoxy)butyl]-
(CA INDEX NAME)



IT 860266-98-4P 860266-99-5P 860267-00-1P

860267-01-2P 860267-03-4P 860267-04-5P

860267-09-0P 860267-11-4P

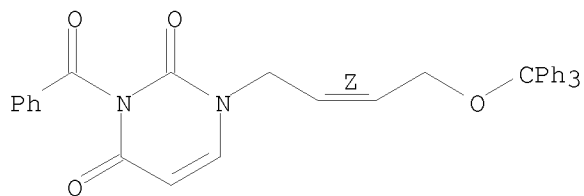
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of pyrimidinediones as deoxyuridine triphosphate
nucleotidohydrolase inhibitors for treatment of parasitic infections)

RN 860266-98-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-
1-yl]- (CA INDEX NAME)

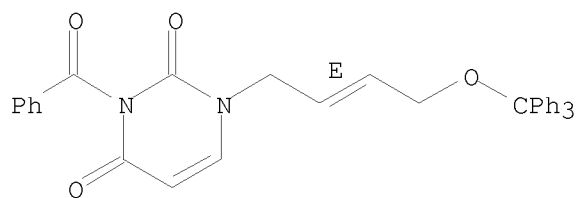
Double bond geometry as shown.



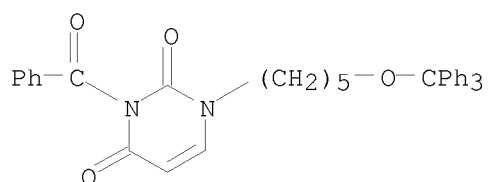
RN 860266-99-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[(2E)-4-(triphenylmethoxy)-2-buten-
1-yl]- (CA INDEX NAME)

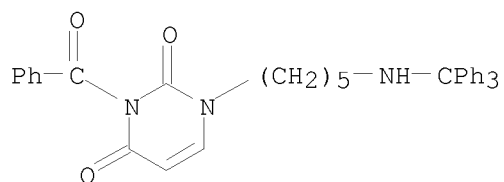
Double bond geometry as shown.



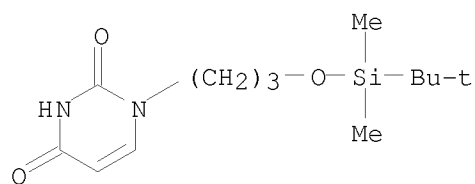
RN 860267-00-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[5-(triphenylmethoxy)pentyl]- (CA INDEX NAME)



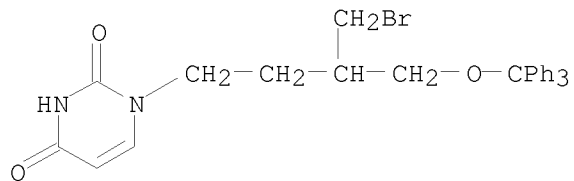
RN 860267-01-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[5-[(triphenylmethyl)amino]pentyl]- (CA INDEX NAME)



RN 860267-03-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[[[1,1-dimethylethyl]dimethylsilyl]oxy]propyl]- (CA INDEX NAME)

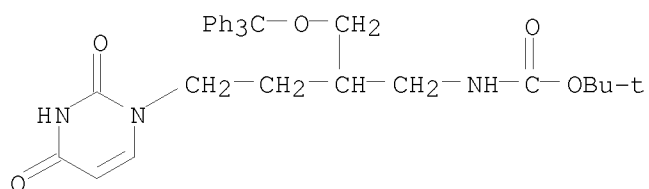


RN 860267-04-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-(bromomethyl)-4-(triphenylmethoxy)butyl]- (CA INDEX NAME)



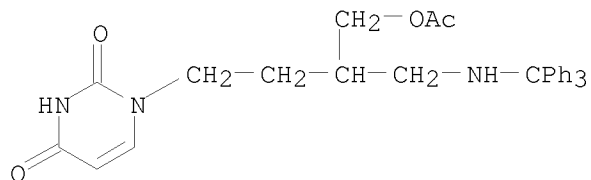
RN 860267-09-0 CAPLUS

CN Carbamic acid, [4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-2-[(triphenylmethoxy)methyl]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 860267-11-4 CAPLUS

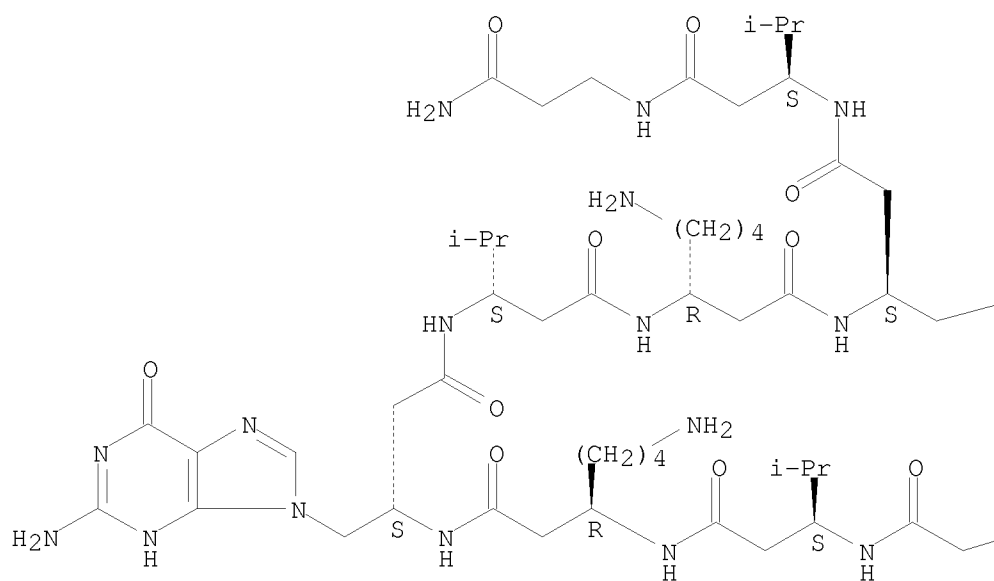
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[(acetyloxy)methyl]-4-[(triphenylmethyl)amino]butyl]- (CA INDEX NAME)



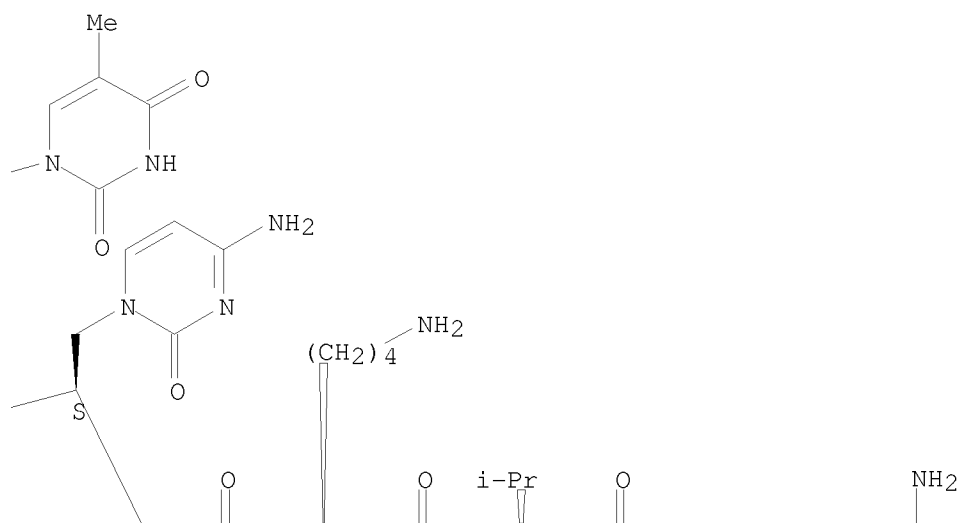
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

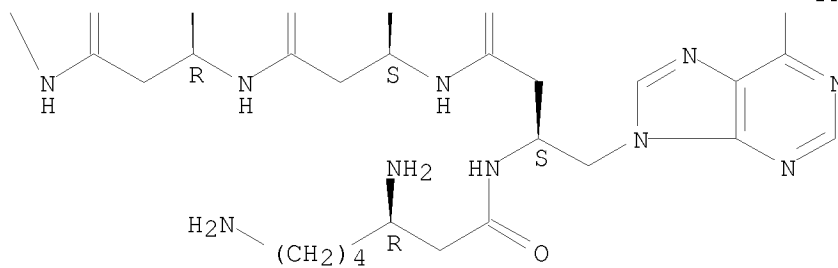
L11 ANSWER 26 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:489071 CAPLUS
 DN 143:153688
 TI Three-dimensional organization of helices: design principles for
 nucleobase-functionalized β -peptides
 AU Chakraborty, Pradip; Diederichsen, Ulf
 CS Institut fuer Organische und Biomolekulare Chemie, Georg August
 Universitaet Goettingen, Goettingen, 37077, Germany
 SO Chemistry--A European Journal (2005), 11(11), 3207-3216
 CODEN: CEUJED; ISSN: 0947-6539
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 OS CASREACT 143:153688
 AB The construction and mol. recognition of various three-dimensional
 biomimetic structures is based on the predictable de novo design of
 artificial mols. In this regard β -peptides are especially interesting,
 since stable secondary structures are obtained already with short
 sequences; one of them is the 14-helix in which every third residue has
 the same orientation. The covalent functionalization of every third
 14-helix side chain with nucleobases was used for a reversible
 organization of two helices based on nucleobase pairing. A series of
 β -peptides with various nucleobase sequences was synthesized and the
 stability of double strand formation was investigated. As few as four
 nucleobases are sufficient for considerable duplex stability. The
 stability of base pairing was examined by temperature-dependent UV spectroscopy
 and the formation of the 14-helix was confirmed by CD spectroscopy. The
 preferred strand orientation of complementary-nucleobase-modified
 β -peptide helices was investigated as well as the influence of helix
 content on the duplex stability. The preorganization of a 14-helix in
 regard to double-strand recognition was tuned by the sequential order of
 polar β -amino acids or by the amount of 2-aminocyclohexanecarboxylic
 acid units incorporated, which are known to facilitate 14-helix formation,
 resp.
 IT 860458-18-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of nucleobase-functionalized β -peptides and effect of
 helix content on duplex stability)
 RN 860458-18-0 CAPLUS
 CN 9H-Purine-9-butanamide, 2-amino-N-[(7S,11S,15R,19S)-1-amino-15-(4-
 aminobutyl)-11-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-
 7,19-bis(1-methylethyl)-1,5,9,13,17-pentaoxo-4,8,12,16-tetraazanonadec-19-
 yl]- β -[(3R,7S,11S,15R,19S,23S,27R)-27,31-diamino-3,15-bis(4-
 aminobutyl)-11-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-23-[(6-amino-9H-
 purin-9-yl)methyl]-7,19-bis(1-methylethyl)-1,5,9,13,17,21,25-heptaoxo-
 4,8,12,16,20,24-hexaazahentriacont-1-yl]amino]-1,6-dihydro-6-oxo-,
 (β S)- (CA INDEX NAME)

Absolute stereochemistry.



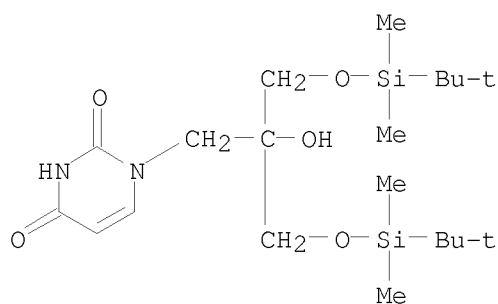
PAGE 1-B





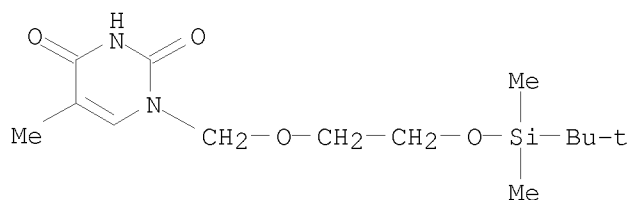
OSC.G	16	THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
RE.CNT	75	THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 27 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:411671 CAPLUS
 DN 143:115746
 TI Cyclization reactions of 1-[3'-hydroxy-2'-(hydroxymethyl)prop-1'-enyl]pyrimidine nucleobases: intramolecular Michael additions to the C(5):C(6) bonds and intramolecular dehydration
 AU Dahl, Otto; Jensen, Jacob; Petersen, Michael Axman; Henriksen, Ulla
 CS Department of Chemistry The H. C. Orsted Institute, University of Copenhagen, Copenhagen, DK-2100, Den.
 SO Organic & Biomolecular Chemistry (2005), 3(10), 1964-1970
 CODEN: OBCRAK; ISSN: 1477-0520
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 143:115746
 AB The tendency of a series of acyclic nucleoside analogs, e.g. I, to undergo intramol. cyclization reactions was investigated. All compds., when treated with NaOD, were in equilibrium with the bicyclic compds., e.g. II, arising from Michael addition of a hydroxy group to the C(5):C(6) bonds. Derivs. of 2,4-pyrimidinedione, e.g. I, had the highest tendency to undergo intramol. Michael addition when treated with triethylamine, whereas the cyclization of 4-amino-2-pyridone derivs. proceeded best with acid. The exocyclic double bond of I was essential for the cyclization to occur. Commonly used N-protecting groups as the benzoyl- and the dibutylaminomethylene group enhanced cyclization.
 IT 857861-38-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (cyclization reactions of 1-[3'-hydroxy-2'-(hydroxymethyl)prop-1'-enyl]pyrimidine nucleobases and intramol. Michael addns. to the C(5):C(6) bonds and intramol. dehydration)
 RN 857861-38-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-hydroxypropyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 28 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:359585 CAPLUS
 DN 143:43727
 TI Synthesis of 1-[(2-hydroxyethoxy)methyl]-6-(5,6,7,8-tetrahydronaphthylmethyl-1)thymine as novel inhibitor against drug-resistant HIV mutants
 AU Meng, Ge; Kuang, Yun-Yan; Ji, Lei; Chen, Fen-Er
 CS Department of Chemistry, Fudan University, Shanghai, Peop. Rep. China
 SO Synthetic Communications (2005), 35(8), 1095-1102
 CODEN: SYNCAV; ISSN: 0039-7911
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 OS CASREACT 143:43727
 AB Synthesis of two new 1-[(2-hydroxyethoxy)methyl]-6-(5,6,7,8-tetrahydronaphthylmethyl)thymine derivs. as potent inhibitors against a mutant type of HIV, starting from thymine, is described. In the preparation of the corresponding 1-[(2-hydroxyethoxy)methyl]-6-(5,6,7,8-tetrahydronaphthylmethyl)thymine derivs. a three-step reaction via deprotection, hydrogenolysis, and hydrogenation was carried out in a one-pot procedure. The pharmacol. activity of the target compds. thus prepared will be reported elsewhere.
 IT 121749-98-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of [(hydroxyethoxy)methyl](tetrahydronaphthylmethyl)thymine derivs. using hydroxyethyl thymine derivative as synthetic intermediate)
 RN 121749-98-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy)methyl]-5-methyl- (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 29 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:260025 CAPLUS
 DN 142:336245
 TI Preparation of biphenylpentanoic acid derivatives as matrix
 metalloproteinase inhibitors
 IN Gaines, Simon; Holmes, Ian Peter; Martin, Stephen Lewis; Watson, Stephen
 Paul
 PA Glaxo Group Limited, UK
 SO PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005026120	A1	20050324	WO 2004-EP10319	20040910
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004272280	A1	20050324	AU 2004-272280	20040910
	CA 2538315	A1	20050324	CA 2004-2538315	20040910
	EP 1663970	A1	20060607	EP 2004-765231	20040910
	EP 1663970	B1	20081105		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
	CN 1849306	A	20061018	CN 2004-80026229	20040910
	BR 2004013791	A	20061107	BR 2004-13791	20040910
	JP 2007505081	T	20070308	JP 2006-525794	20040910
	SG 145685	A1	20080929	SG 2008-5432	20040910
	AT 413384	T	20081115	AT 2004-765231	20040910
	NZ 545211	A	20090131	NZ 2004-545211	20040910
	ES 2314436	T3	20090316	ES 2004-765231	20040910
	EP 2042488	A1	20090401	EP 2008-163972	20040910
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LT, LV				
	NO 2006000540	A	20060404	NO 2006-540	20060202
	IN 2006KN00295	A	20070608	IN 2006-KN295	20060210
	MX 2006002458	A	20060620	MX 2006-2458	20060302
	ZA 2006002070	A	20070530	ZA 2006-2070	20060310
	KR 2006120648	A	20061127	KR 2006-705114	20060313
	US 20060293353	A1	20061228	US 2006-571443	20060313
	HK 1092141	A1	20090529	HK 2006-112572	20061115
	IN 2008KN02511	A	20090130	IN 2008-KN2511	20080620
	US 20090082377	A1	20090326	US 2008-266767	20081107
PRAI	GB 2003-21538	A	20030913		
	EP 2004-765231	A3	20040910		
	WO 2004-EP10319	W	20040910		
	IN 2006-KN295	A3	20060210		
	US 2006-571443	A1	20060313		

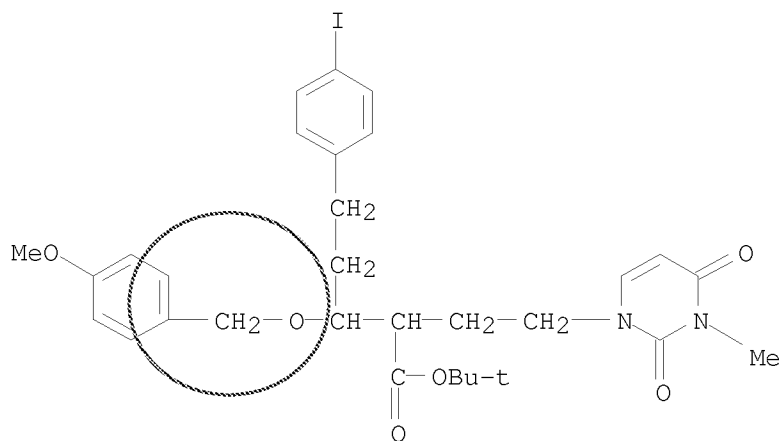
OS CASREACT 142:336245; MARPAT 142:336245

AB Title compds. represented by the formula I [wherein A = a bond or (CH:CH)alkyl; B = a bond, O, S, SO₂, CO, etc.; D = a bond or alkyl; E = (un)substituted (hetero)aryl; Q = (un)substituted (hetero)aryl; X = O, S, SO, SO₂, CO, etc.; Y = SO, SO₂, CS, etc.; R, R₁ = independently H or alkyl(aryl); R₂ = carboxy, amido, thiol, etc.; R₃ = H or alkyl(aryl); R₄ = (un)substituted (hetero)aryl; Z = a bond, CH₂, amino, etc., or R₄Z = (un)substituted fused tricyclic group; and physiolog. functional derivs. thereof] were prepared as matrix metalloproteinase (MMP) inhibitors. For example, II was given in a multi-step synthesis starting from biphenyl-4-ylmethanol. I showed inhibition of MMP-12 with IC₅₀ values of below 100 μ M. Thus, I and their pharmaceutical compns. are useful as MMP inhibitors for the treatment of autoimmune disorder or inflammatory condition (no data).

IT 848407-57-8P, 1,1-Dimethylethyl
 5-(4-iodophenyl)-2-[2-(3-methyl-2,4-dioxo-3,4-dihydro-1(2H)-pyrimidinyl)ethyl]-3-[[[4-(methoxyloxy)phenyl]methyl]oxy]pentanoate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of biphenylpentanoic acid derivs. as matrix metalloproteinase inhibitors)

RN 848407-57-8 CAPLUS

CN 1(2H)-Pyrimidinebutanoic acid, 3,4-dihydro- α -[3-(4-iodophenyl)-1-[(4-methoxyphenyl)methoxy]propyl]-3-methyl-2,4-dioxo-, 1,1-dimethylethyl ester
 (CA INDEX NAME)



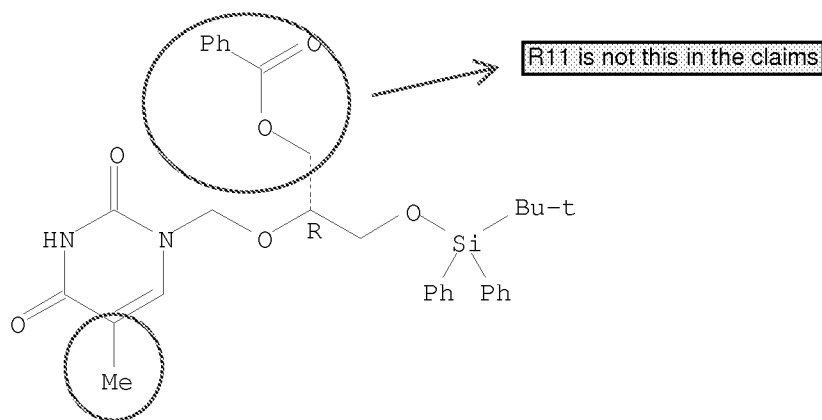
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 30 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:200927 CAPLUS
 DN 143:188490
 TI Toward non-natural polymers that fold and function
 AU Park, Jeong-Il; Roth, Shoshannah L.; McQuade, D. Tyler
 CS Department of Chemistry and Chemical Biology, Cornell University, Ithaca, NY, 14853-1301, USA
 SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2005), 46(1), 180
 CODEN: ACPPAY; ISSN: 0032-3934
 PB American Chemical Society, Division of Polymer Chemistry
 DT Journal; (computer optical disk)
 LA English
 AB Oligonucleotides constructed from acyclic nucleotides have the potential to fold and function like their natural counterparts. The advantages of using non-natural backbones are greater stability toward hydrolytic enzymes and the potential of incorporating non-natural monomers with catalytic function.
 IT 861205-26-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (acyclic nucleotide DNA analogs interactions)
 RN 861205-26-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R)-2-(benzoyloxy)-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.

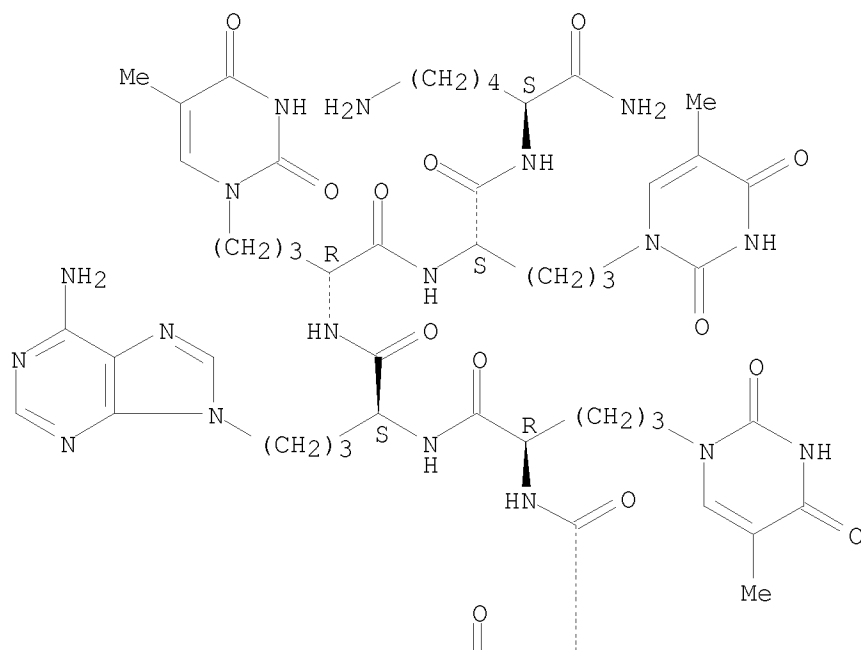


RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

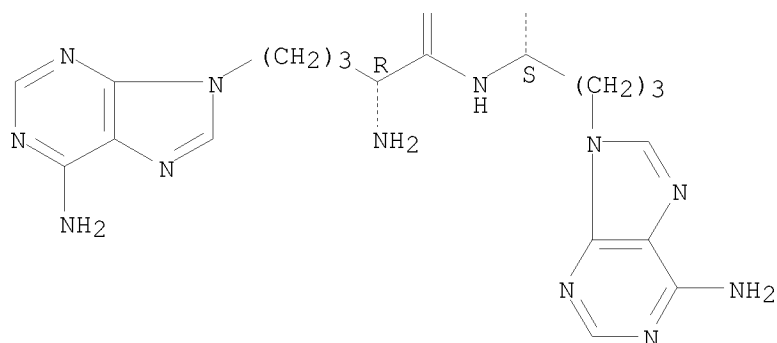
L11 ANSWER 31 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:198994 CAPLUS
 DN 142:430511
 TI Side chain homologation of alanyl peptide nucleic acids: pairing
 selectivity and stacking
 AU Diederichsen, Ulf; Weicherding, Daniel; Diezemann, Nicola
 CS Institut fuer Organische und Biomolekulare Chemie, Goettingen, D-37077,
 Germany
 SO Organic & Biomolecular Chemistry (2005), 3(6), 1058-1066
 CODEN: OBCRAK; ISSN: 1477-0520
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 142:430511
 AB Alanyl peptide nucleic acids (alanyl-PNAs) are oligomers based on a
 regular peptide backbone with alternating configuration of the amino
 acids. All side chains are modified by covalently linked nucleobases.
 Alanyl-PNAs form very rigid, well defined, and linear double strands based
 on hydrogen bonding of complementary strands, stacking, and solvation.
 Side chain homol. was examined by comparing a methylene linker (alanyl-PNA)
 with an ethylene linker (homoalanyl-PNA), a trimethylene linker
 (norvalyl-PNA), and PNA sequences with mixed linker length between
 nucleobase and backbone. Side chain homol. in combination with a linear
 double strand topol. turned out to be valuable in order to selectively
 manipulate pairing selectivity (pairing mode) and base pair stacking.
 IT 850742-43-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (side chain homologation as solid phase peptide synthesis of peptide
 nucleic acids and effect of hydrogen bonding, base stacking, and
 solvation on double strands formation)
 RN 850742-43-7 CAPLUS
 CN L-Lysinamide, 5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(6-amino-9H-purin-9-
 yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-D-
 norvalyl-5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-
 dioxo-1(2H)-pyrimidinyl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-
 1(2H)-pyrimidinyl)-L-norvalyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IT 850742-43-7DP, self-association dimer 850742-75-5P
864629-43-6P

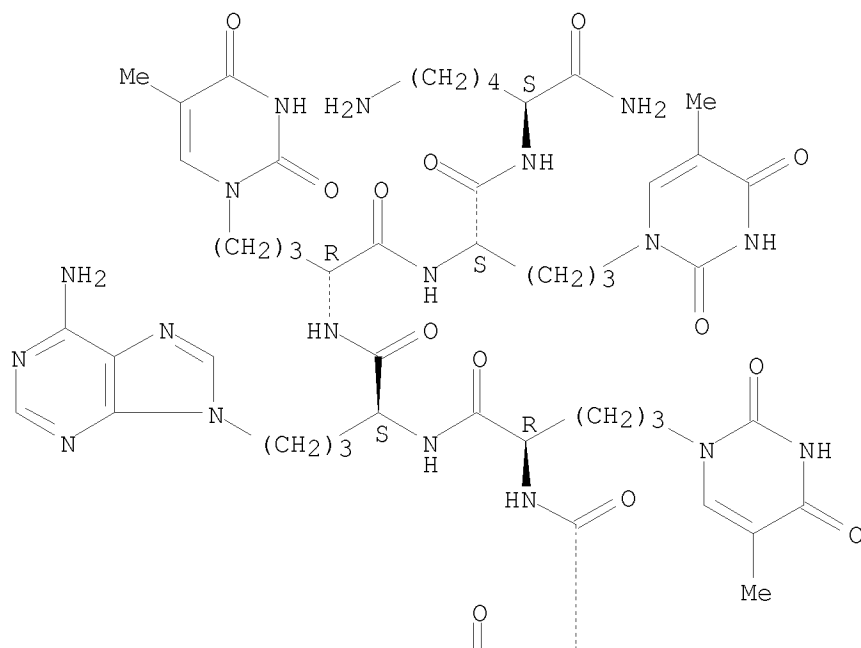
RL: SPN (Synthetic preparation); PREP (Preparation)
(side chain homologation as solid phase peptide synthesis of peptide
nucleic acids and effect of hydrogen bonding, base stacking, and
solvation on double strands formation)

RN 850742-43-7 CAPLUS

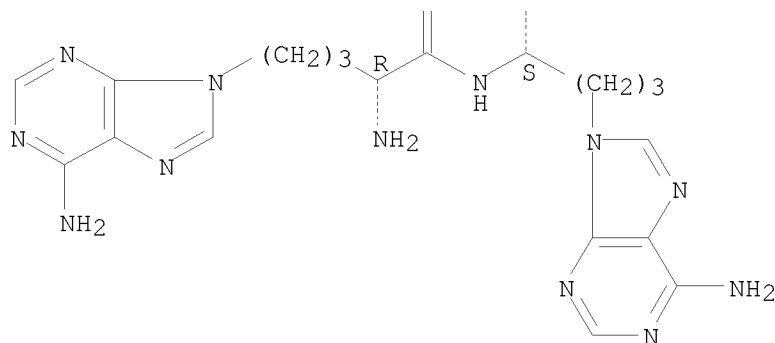
CN L-Lysinamide, 5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-D-norvalyl-5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-norvalyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



RN 850742-75-5 CAPLUS
 CN L-Lysinamide, 5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-D-norvalyl-5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-L-norvalyl-, compd. with
 5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-L-norvalyl-5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-L-norvalyl-

pyrimidinyl)-D-norvalyl-L-lysineamide (1:1) (9CI) (CA INDEX NAME)

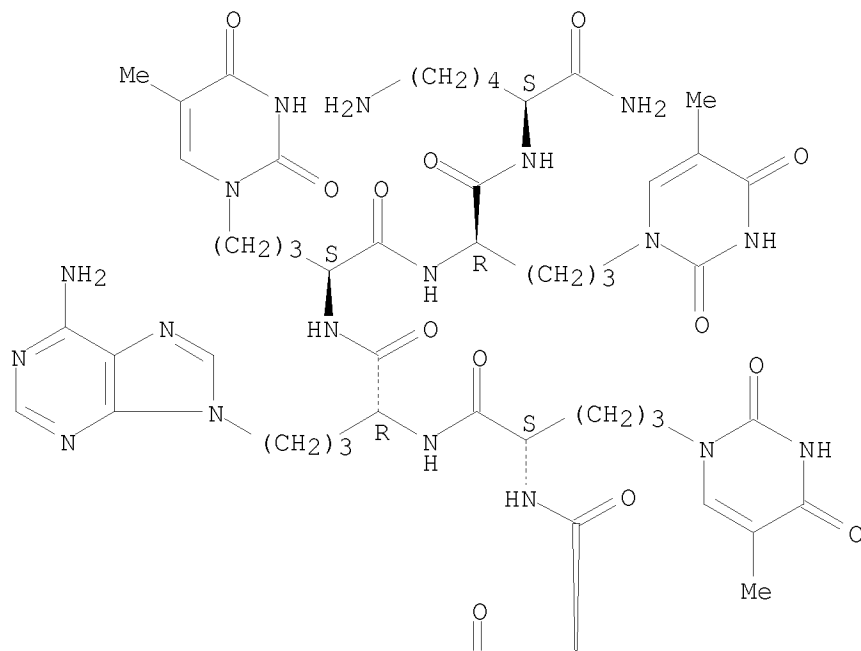
CM 1

CRN 850742-74-4

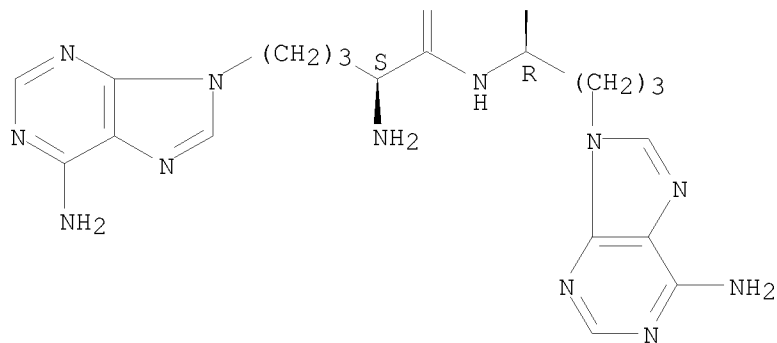
CMF C66 H90 N30 O13

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



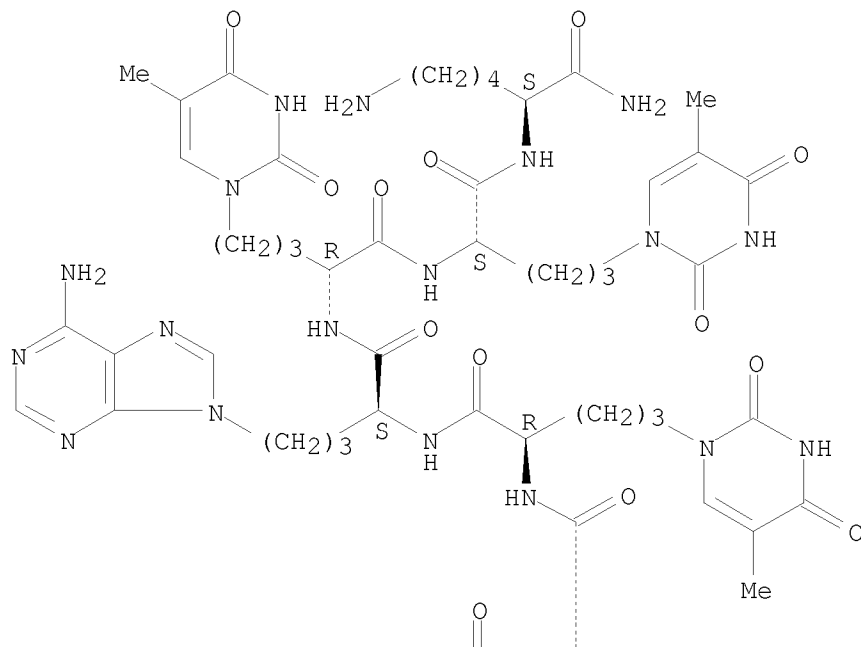
CM 2

CRN 850742-43-7

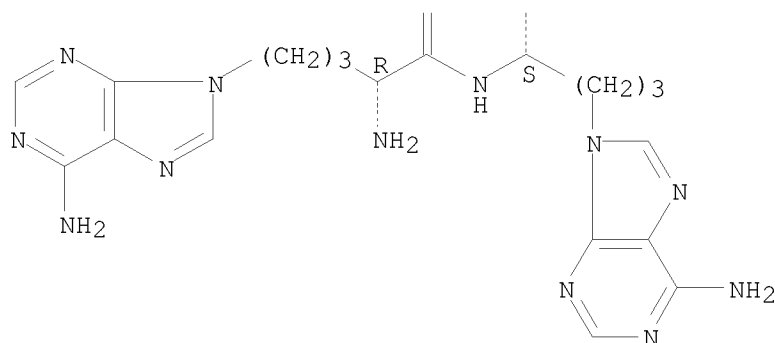
CMF C66 H90 N30 O13

Absolute stereochemistry.

PAGE 1-A



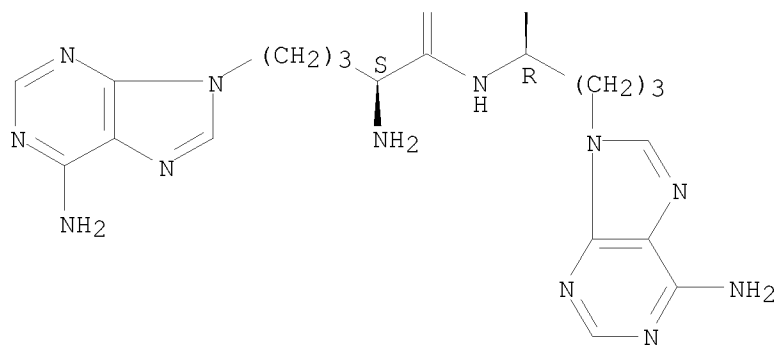
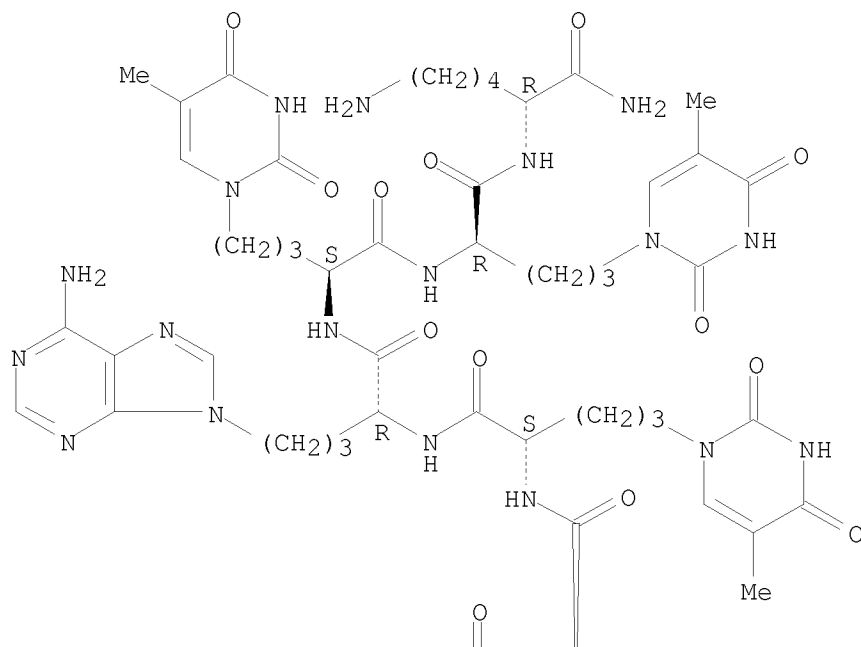
PAGE 2-A



RN 864629-43-6 CAPLUS

CN D-Lysinamide, 5-(6-amino-9H-purin-9-yl)-L-norvalyl-5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-1-yl)-L-norvalyl-5-(6-amino-9H-purin-9-yl)-D-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-1-yl)-L-norvalyl-5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-1-yl)-D-norvalyl- (9CI) (CA INDEX NAME)

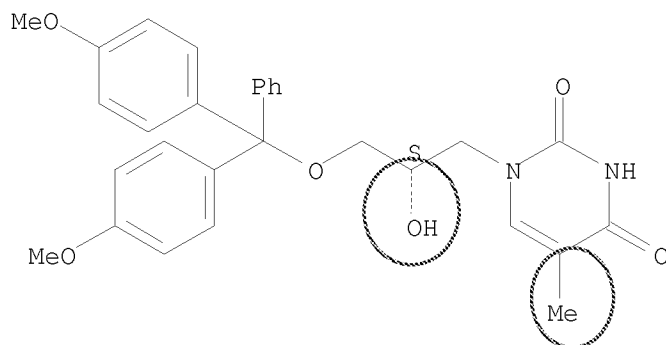
Absolute stereochemistry.



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
 RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 32 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:180165 CAPLUS
 DN 142:443389
 TI A Simple Glycol Nucleic Acid
 AU Zhang, Lilu; Peritz, Adam; Meggers, Eric
 CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA,
 19104, USA
 SO Journal of the American Chemical Society (2005), 127(12), 4174-4175
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 142:443389
 AB A glycol nucleic acid (GNA) with an acyclic propylene glycol
 phosphodiester backbone forms stable antiparallel duplexes following the
 Watson-Crick base pairing rules.
 IT 168332-12-5P 168332-14-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and antiparallel duplex Watson-Crick base pairing properties of
 glycol nucleic acids with acyclic propylene glycol phosphodiester
 backbone)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-
 2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

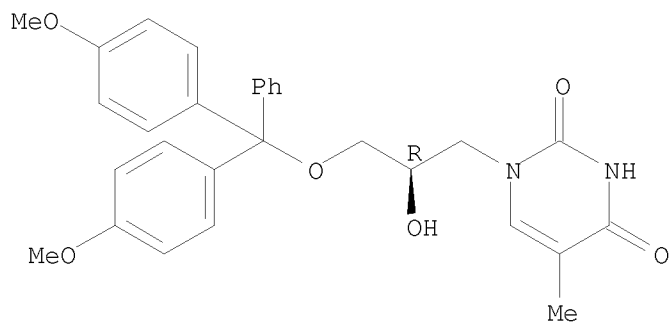
Absolute stereochemistry. Rotation (-).



compound claims do not contain this;
the reference does not teach any
utility

RN 168332-14-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R)-3-[bis(4-methoxyphenyl)phenylmethoxy]-
 2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

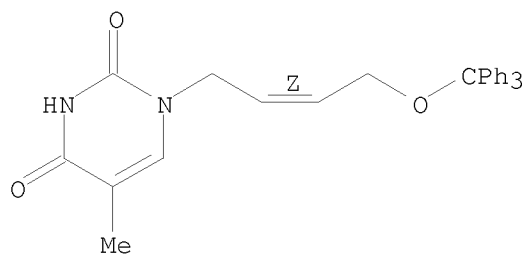
Absolute stereochemistry. Rotation (+).



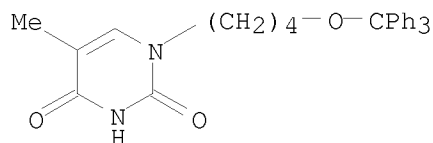
OSC.G 56 THERE ARE 56 CAPLUS RECORDS THAT CITE THIS RECORD (56 CITINGS)
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 33 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:735304 CAPLUS
 DN 141:273528
 TI Synthesis and evaluation of thymine-derived carboxamides against
 mitochondrial thymidine kinase (TK-2) and related enzymes
 AU Priego, Eva-Maria; Balzarini, Jan; Karlsson, Anna; Camarasa, Maria-Jose;
 Perez-Perez, Maria-Jesus
 CS Instituto de Quimica Medica (CSIC), Madrid, E-28006, Spain
 SO Bioorganic & Medicinal Chemistry (2004), 12(19), 5079-5090
 CODEN: BMECEP; ISSN: 0968-0896
 PB Elsevier Ltd.
 DT Journal
 LA English
 OS CASREACT 141:273528
 AB Based on the structure of the authors previously identified mitochondrial
 thymidine kinase (TK-2) inhibitors, three series of thymine-derived
 carboxamides have been synthesized and tested against TK-2 and related
 enzymes. The methodol. employed has been a solution-phase parallel synthesis
 based on the coupling of three thymine-derived acids
 [4-(thymine-1-yl)butyric acid, [4-(thymine-1-yl)-butyrylamino]acetic acid
 and 6-(thymine-1-yl)hexanoic acid] with different com. available primary
 amines that carry cyano and/or Ph groups. The couplings were performed in
 good yields (from 60% to 90%), with the exception of those that
 incorporate the highly crowded triphenylmethylamine (e). From the new
 synthesized compds., the N-trityl-6-(thymine-1-yl)hexanamide was the most
 active TK-2 inhibitor (IC₅₀ = 19 μ M).
 IT 471256-44-7 471256-52-7 757964-30-0
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (synthesis and evaluation of thymine-derived carboxamides against
 mitochondrial thymidine kinase (TK-2) and related enzymes)
 RN 471256-44-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-
 1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



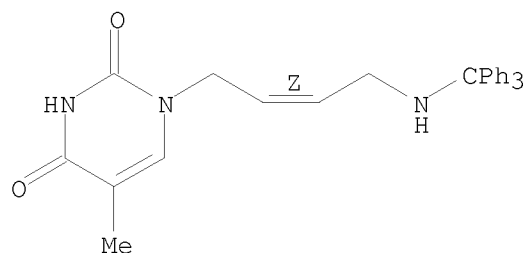
RN 471256-52-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[4-(triphenylmethoxy)butyl]- (CA
 INDEX NAME)



RN 757964-30-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2Z)-4-[(triphenylmethyl)amino]-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



IT 757964-43-5P 757964-44-6P 757964-45-7P

757964-53-7P 757964-54-8P 757964-55-9P

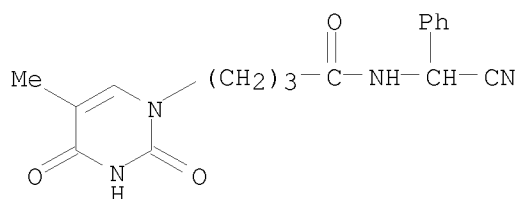
757964-56-0P 757964-57-1P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)

(synthesis and evaluation of thymine-derived carboxamides against
mitochondrial thymidine kinase (TK-2) and related enzymes)

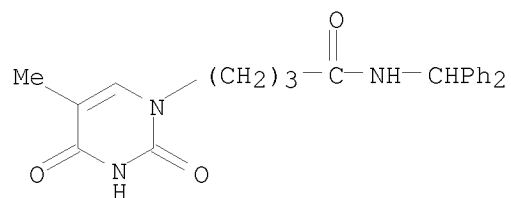
RN 757964-43-5 CAPLUS

CN 1(2H)-Pyrimidinebutanamide, N-(cyanophenylmethyl)-3,4-dihydro-5-methyl-2,4-dioxo- (CA INDEX NAME)



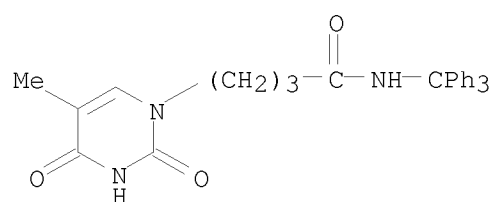
RN 757964-44-6 CAPLUS

CN 1(2H)-Pyrimidinebutanamide, N-(diphenylmethyl)-3,4-dihydro-5-methyl-2,4-dioxo- (CA INDEX NAME)



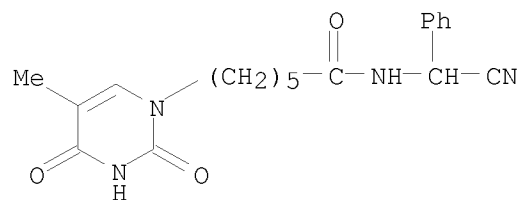
RN 757964-45-7 CAPLUS

CN 1(2H)-Pyrimidinebutanamide, 3,4-dihydro-5-methyl-2,4-dioxo-N-(triphenylmethyl)- (CA INDEX NAME)



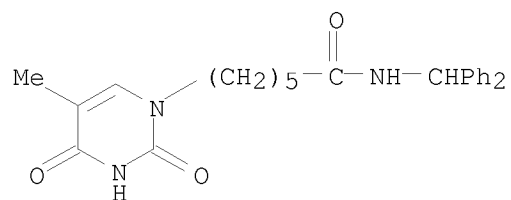
RN 757964-53-7 CAPLUS

CN 1(2H)-Pyrimidinehexanamide, N-(cyanophenylmethyl)-3,4-dihydro-5-methyl-2,4-dioxo- (CA INDEX NAME)



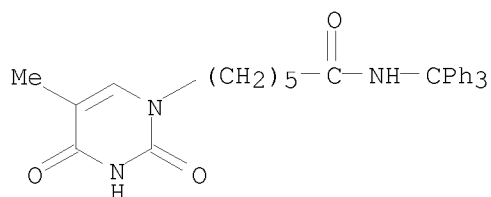
RN 757964-54-8 CAPLUS

CN 1(2H)-Pyrimidinehexanamide, N-(diphenylmethyl)-3,4-dihydro-5-methyl-2,4-dioxo- (CA INDEX NAME)



RN 757964-55-9 CAPLUS

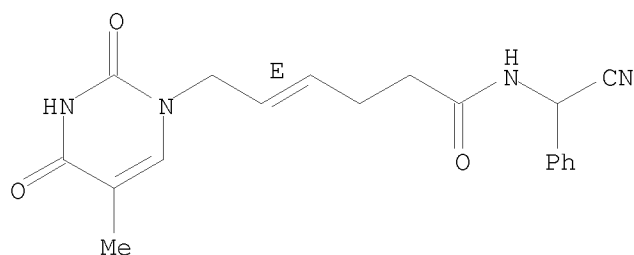
CN 1(2H)-Pyrimidinehexanamide, 3,4-dihydro-5-methyl-2,4-dioxo-N-(triphenylmethyl)- (CA INDEX NAME)



RN 757964-56-0 CAPLUS

CN 4-Hexenamide, N-(cyanophenylmethyl)-6-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-, (4E)- (CA INDEX NAME)

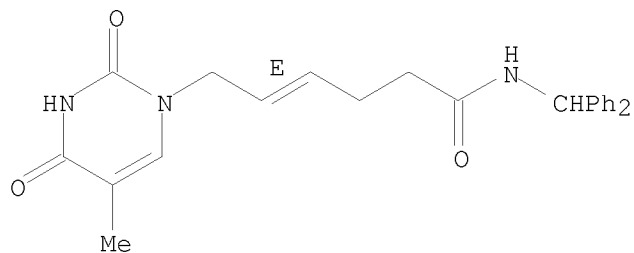
Double bond geometry as shown.



RN 757964-57-1 CAPLUS

CN 4-Hexenamide, 6-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-N-(diphenylmethyl)-, (4E)- (CA INDEX NAME)

Double bond geometry as shown.



IT 757964-37-7P 757964-38-8P

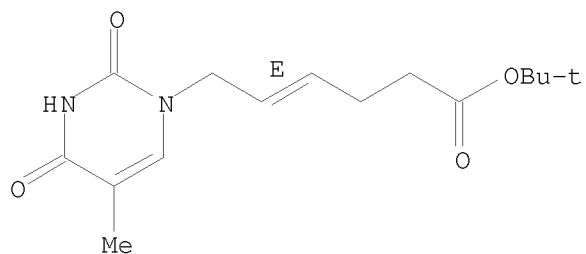
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and evaluation of thymine-derived carboxamides against mitochondrial thymidine kinase (TK-2) and related enzymes)

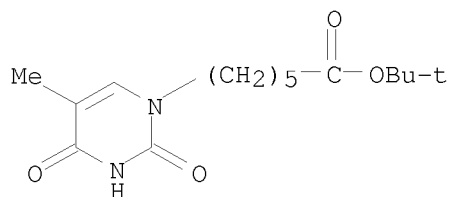
RN 757964-37-7 CAPLUS

CN 4-Hexenoic acid, 6-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-, 1,1-dimethylethyl ester, (4E)- (CA INDEX NAME)

Double bond geometry as shown.



RN 757964-38-8 CAPLUS
 CN 1(2H)-Pyrimidinehexanoic acid, 3,4-dihydro-5-methyl-2,4-dioxo-,
 1,1-dimethylethyl ester (CA INDEX NAME)

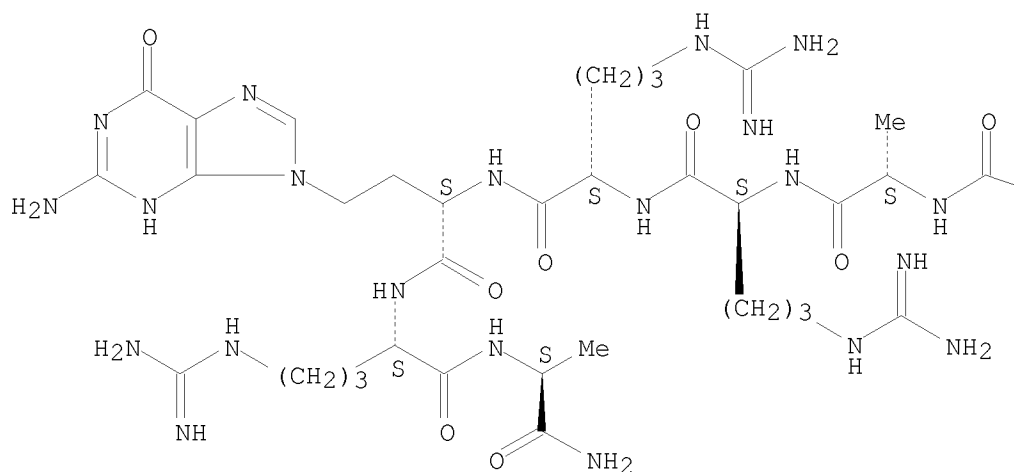


OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

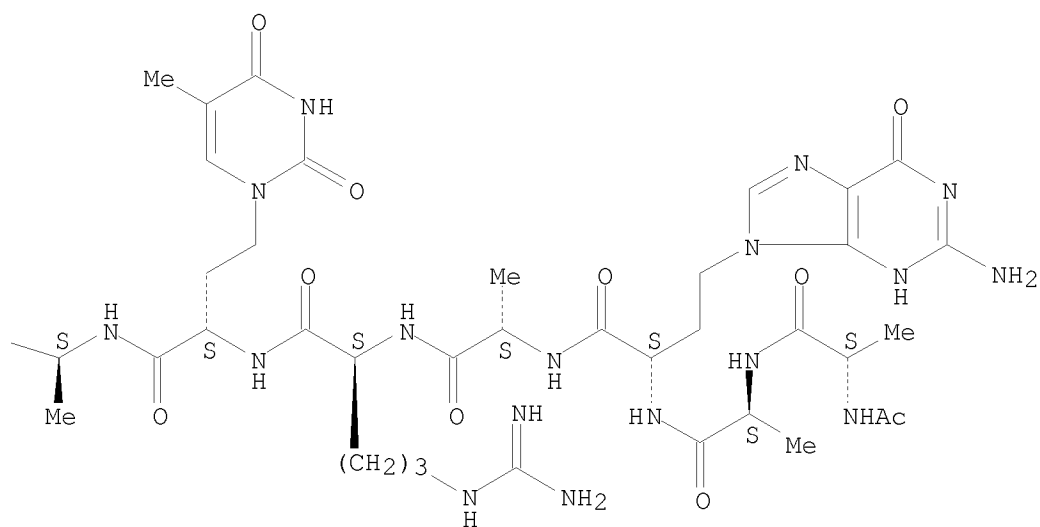
L11 ANSWER 34 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:528258 CAPLUS
 DN 141:256265
 TI De Novo Design of Peptides with L- α -Nucleobase Amino Acids and Their
 Binding Properties to the P22 boxB RNA and Its Mutants
 AU Miyanishi, Hideo; Takahashi, Tsuyoshi; Mihara, Hisakazu
 CS Department of Bioengineering, Graduate School of Bioscience and
 Biotechnology, Tokyo Institute of Technology, Yokohama, 226-8501, Japan
 SO Bioconjugate Chemistry (2004), 15(4), 694-698
 CODEN: BCCHE; ISSN: 1043-1802
 PB American Chemical Society
 DT Journal
 LA English
 AB A method to design novel mols. that specifically recognize a structured
 RNA would be a promising tool for the development of drugs or probes
 targeting RNA. In this study, the de novo design of the α -helical
 peptides having L- α -amino acids with nucleobases (nucleobase amino
 acids, NBAs) was carried out. Binding affinities of the peptides for a
 hairpin RNA derived from P22 phage were dependent on the types and
 positions of the NBA units they have. Some NBA peptides bound to the
 wild-type RNA or its mutant with high affinity and high specificity
 compared with the native P22 N peptide. These results indicate that the
 NBA units on the peptides interact with the RNA bases in a specific
 manner. It is demonstrated that the de novo design of peptides with the
 NBA units is an effective way to construct novel RNA-binding mols.
 IT 756527-81-8 756527-85-2
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (nucleobase amino acid-containing peptide model; α -helical peptide
 analogs with L- α -nucleobase amino acids design and binding
 properties to P22 boxB hairpin RNA and its mutants)
 RN 756527-81-8 CAPLUS
 CN L-Alaninamide, N-acetyl-L-alanyl-L-alanyl-(α S)- α ,2-diamino-1,6-
 dihydro-6-oxo-9H-purine-9-butanoyl-L-alanyl-L-arginyl-(α S)- α -
 amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-
 alanyl-L-arginyl-L-arginyl-(α S)- α ,2-diamino-1,6-dihydro-6-oxo-
 9H-purine-9-butanoyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



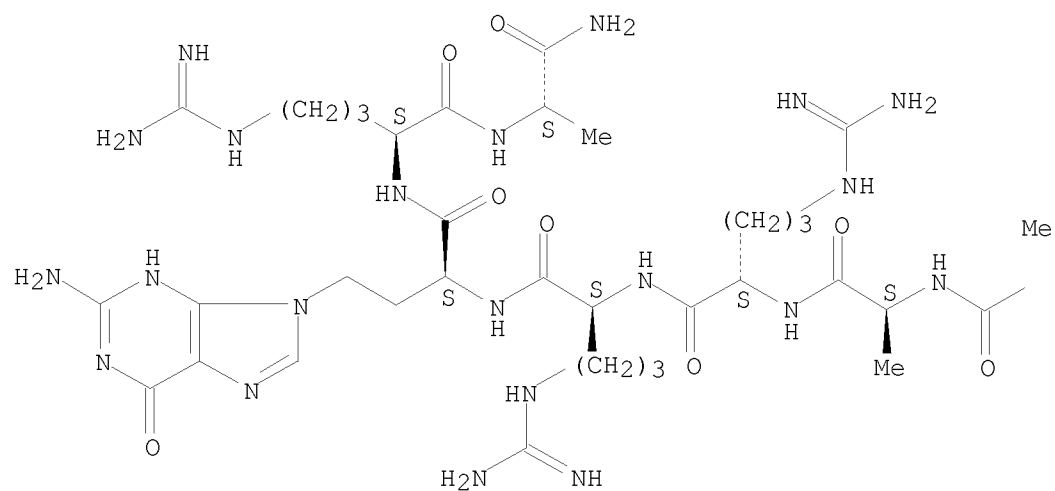
PAGE 1-B



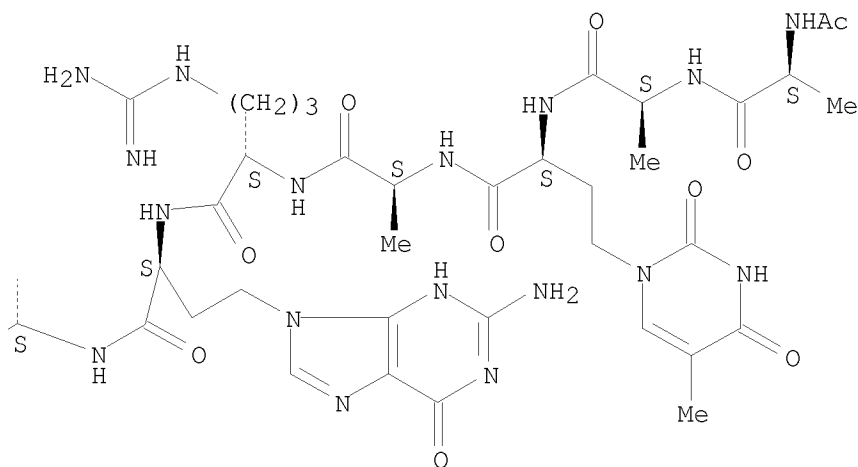
RN 756527-85-2 CAPLUS
 CN L-Alaninamide, N-acetyl-L-alanyl-L-alanyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-arginyl-(α S)- α ,2-diamino-1,6-dihydro-6-oxo-9H-purine-9-butanoyl-L-alanyl-L-alanyl-L-arginyl-L-arginyl-(α S)- α ,2-diamino-1,6-dihydro-6-oxo-9H-purine-9-butanoyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

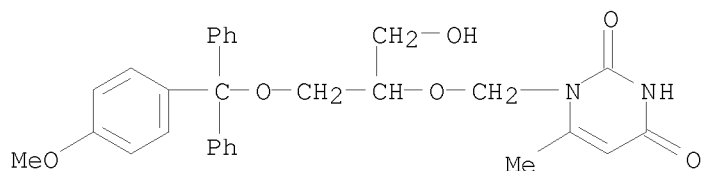


PAGE 1-B



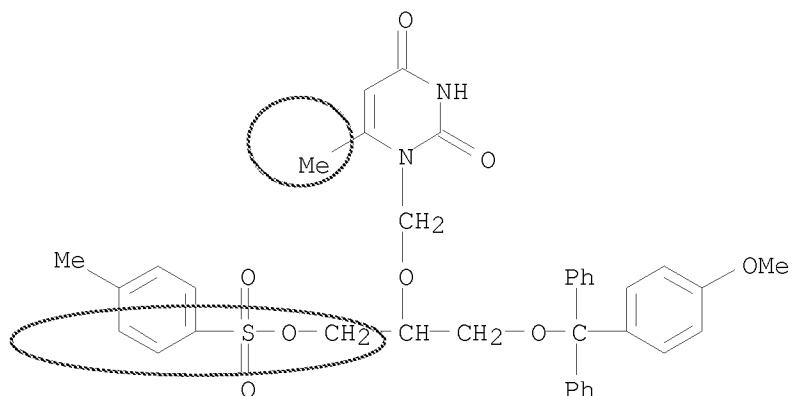
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
 RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 35 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:396295 CAPLUS
 DN 141:106690
 TI Syntheses of novel modified acyclic purine and pyrimidine nucleosides as potential substrates of herpes simplex virus type-1 thymidine kinase for monitoring gene expression
 AU Grote, Michaela; Noll, Steffi; Noll, Bernhard; Johannsen, Bernd; Kraus, Werner
 CS Institut fuer Bioanorganische und Radiopharmazeutische Chemie, Forschungszentrum Rossendorf, Dresden, 01314, Germany
 SO Canadian Journal of Chemistry (2004), 82(4), 513-523
 CODEN: CJCHAG; ISSN: 0008-4042
 PB National Research Council of Canada
 DT Journal
 LA English
 OS CASREACT 141:106690
 AB Suicide gene therapy with the herpes simplex virus type-1 thymidine kinase gene (HSV-1 tk) is considered to be a promising approach to the treatment of cancer. Making use of the lower specificity of the viral enzyme compared to human thymidine kinase, the therapy involves the administration of antiviral agents (e.g., ganciclovir) as prodrugs to induce enzymic cell death in those cells that express the transferred gene. 18F-labeled derivs. have been described for monitoring location, duration, and magnitude of the viral kinase enzyme activity by positron emission tomog. (PET). Since an optimal radiotracer has not been developed, novel substances were synthesized for monitoring gene expression. A group of 13 nucleoside analogs were synthesized, among them N1-methyl-9-[(1,3-dihydroxy-2-propoxy)methyl]guanine and N1-methyl-9-[(4-hydroxy)-3-hydroxymethylbutyl]guanine as Me analogs of ganciclovir and penciclovir and their related fluoro compds. Further novel derivs. include N6-methyl-9-[(1,3-dihydroxy-2-propoxy)methyl]-, N6-methyl-9-[(4-hydroxy)-3-hydroxymethylbutyl]adenine, as well as the uracil derivs. 5-hydroxy-1-[(1,3-dihydroxy-2-propoxy)methyl]uracil, 6-methyl-1-[(1,3-dihydroxy-2-propoxy)-methyl]uracil, and its 3-fluoro-derivative
 IT 718633-26-2P 718633-27-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (syntheses of novel modified acyclic purine and pyrimidine nucleosides as potential substrates of HSV-1 thymidine kinase for monitoring gene expression)
 RN 718633-26-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-hydroxy-1-[[4-methoxyphenyl)diphenylmethoxy)methyl]ethoxy)methyl]-6-methyl- (CA INDEX NAME)



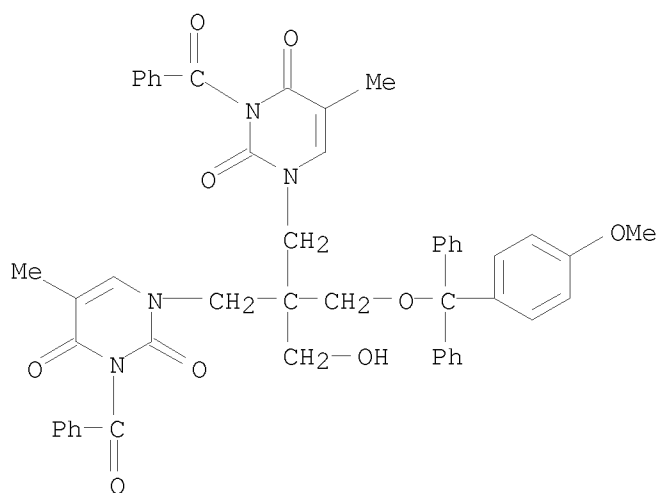
RN 718633-27-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[1-[[4-

methoxyphenyl)diphenylmethoxy)methyl]-2-[[(4-methylphenyl)sulfonyl]oxy]ethoxy)methyl]-6-methyl- (CA INDEX NAME)

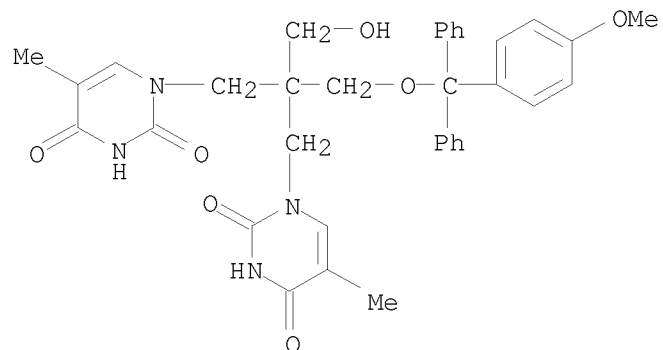


OSC.G	5	THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT	27	THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 36 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:958246 CAPLUS
 DN 140:199626
 TI Synthesis and stability of oligonucleotides containing acyclic achiral nucleoside analogues with two base moieties
 AU Wu, Tongfei; Froeyen, Matheus; Schepers, Guy; Mullens, Kristof; Rozenski, Jef; Busson, Roger; Van Aerschot, Arthur; Herdewijn, Piet
 CS Laboratory of Medicinal Chemistry, Rega Institute for Medicinal Research, Katholieke Universiteit Leuven, Louvain, B-3000, Belg.
 SO Organic Letters (2004), 6(1), 51-54
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 140:199626
 AB Nucleotide building blocks with two base moieties were synthesized and incorporated into oligonucleotides. One of the two bases is involved in base pairing within the double helix, while the other base is sticking out of the minor groove. This system may be used for presenting sequence information at the outside of the helix.
 IT 650619-73-1P 650619-75-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and stability of oligonucleotides containing acyclic achiral nucleoside analogs with two base moieties)
 RN 650619-73-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[2-(hydroxymethyl)-2-[[4-methoxyphenyl)diphenylmethoxy)methyl]-1,3-propanediyl]bis[3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)



RN 650619-75-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[2-(hydroxymethyl)-2-[[4-methoxyphenyl)diphenylmethoxy)methyl]-1,3-propanediyl]bis[5-methyl- (9CI) (CA INDEX NAME)



```

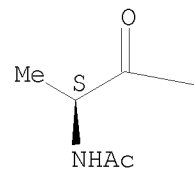
OSC.G      11      THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
RE.CNT     13      THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

```

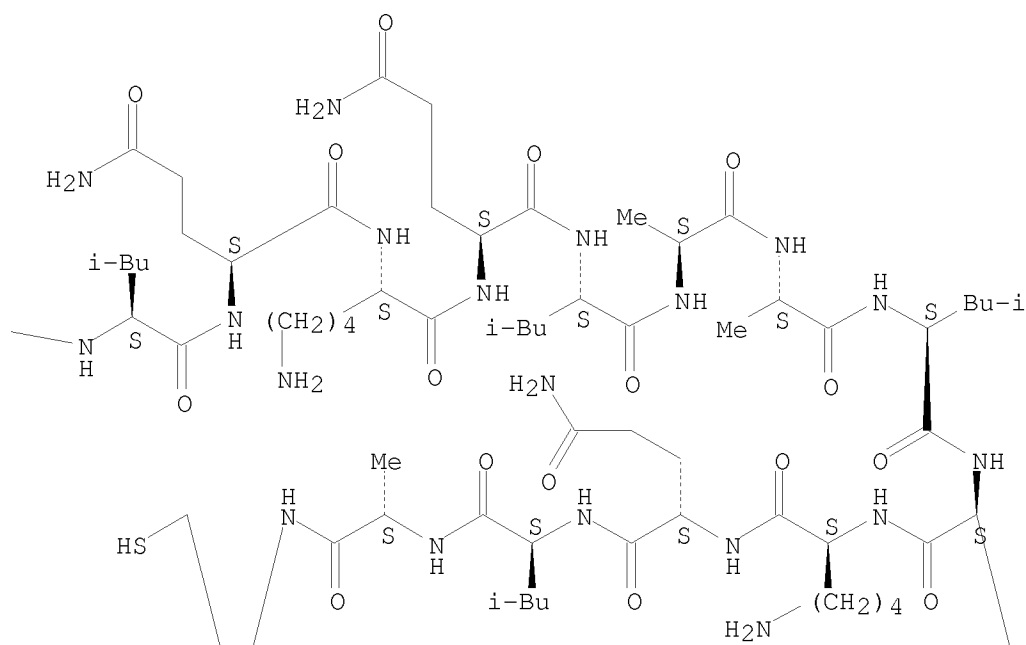
L11 ANSWER 37 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:828740 CAPLUS
 DN 139:381735
 TI Complementary nucleobase interaction enhances peptide-peptide recognition and self-replicating catalysis
 AU Matsumura, Sachiko; Takahashi, Tsuyoshi; Ueno, Akihiko; Mihara, Hisakazu
 CS Department of Bioengineering, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Yokohama, 226-8501, Japan
 SO Chemistry--A European Journal (2003), 9(19), 4829-4837
 CODEN: CEUJED; ISSN: 0947-6539
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 OS CASREACT 139:381735
 AB The availability of the complementary interaction of nucleobases for influencing the formation of peptide architectures was explored. Nucleobases were incorporated as addnl. recognition elements in coiled-coil peptides by employing nucleobase amino acids (NBAs), which are artificial L- α -amino γ -nucleobase-butyric acids. The effect of the base-pair interaction on intermol. recognition between peptides was evaluated through a self-replication reaction. The self-replication reactions of the peptides with complementary base pairs such as thymine-adenine or guanine-cytosine at the g-g' heptad positions were accelerated in comparison with those of the peptides with mismatched base pairs or without nucleobases. However, thymine-adenine pairs at the e-e' positions did not enhance the self-replication. In the presence of a denaturant, the enhancement effects of complementary base pairs on the reaction disappeared. Thermal denaturation studies showed that the thymine-adenine pairs contributed to stabilization of the coiled-coil structure and that the pairs at the g-g' positions were more effective than those at the e-e' positions. The peptide-peptide interaction was reinforced by complementary nucleobase interactions appropriately arranged in the peptide structure; these led to acceleration of the self-replication reactions.
 IT 623950-35-6P 623950-38-9P
 RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)
 (effect of complementary nucleobase interaction on peptide-peptide recognition and self-replicating catalysis)
 RN 623950-35-6 CAPLUS
 CN L-Alaninamide, N-acetyl-L-alanyl-L-leucyl-L-glutaminyL-L-lysyl-L-glutaminyL-L-leucyl-L-alanyl-L-alanyl-L-leucyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-L-glutaminyL-L-leucyl-L-alanyl-L-cysteinyl-L-leucyl-(α S)- α ,6-diamino-9H-purine-9-butanoyl-L-lysyl-L-glutaminyL-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminyL-L-lysyl-L-glutaminyL-L-leucyl- (9CI) (CA INDEX NAME)

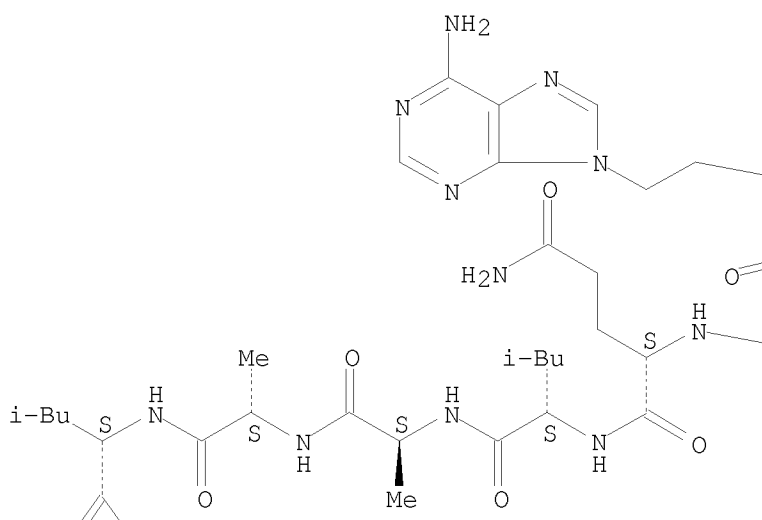
Absolute stereochemistry.

PAGE 1-A

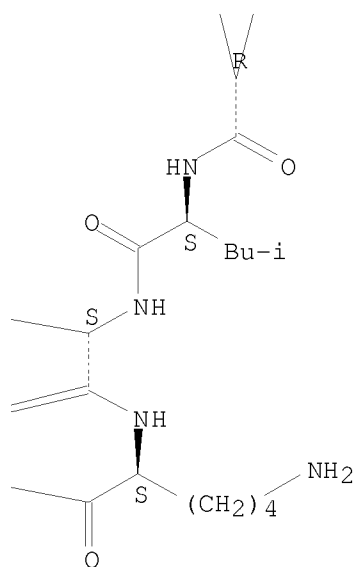


PAGE 1-B

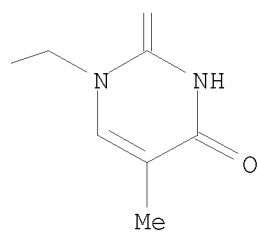




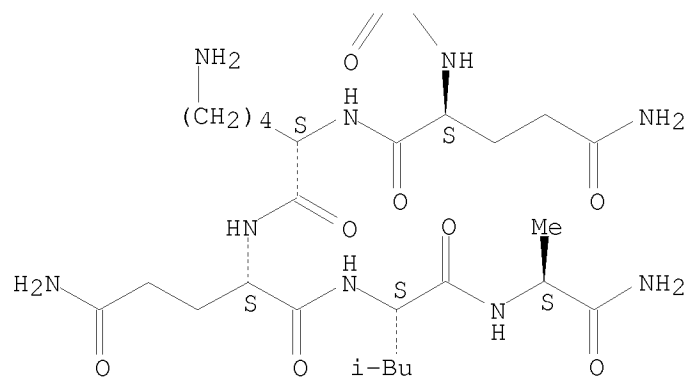
PAGE 2-B



PAGE 2-C



PAGE 3-A



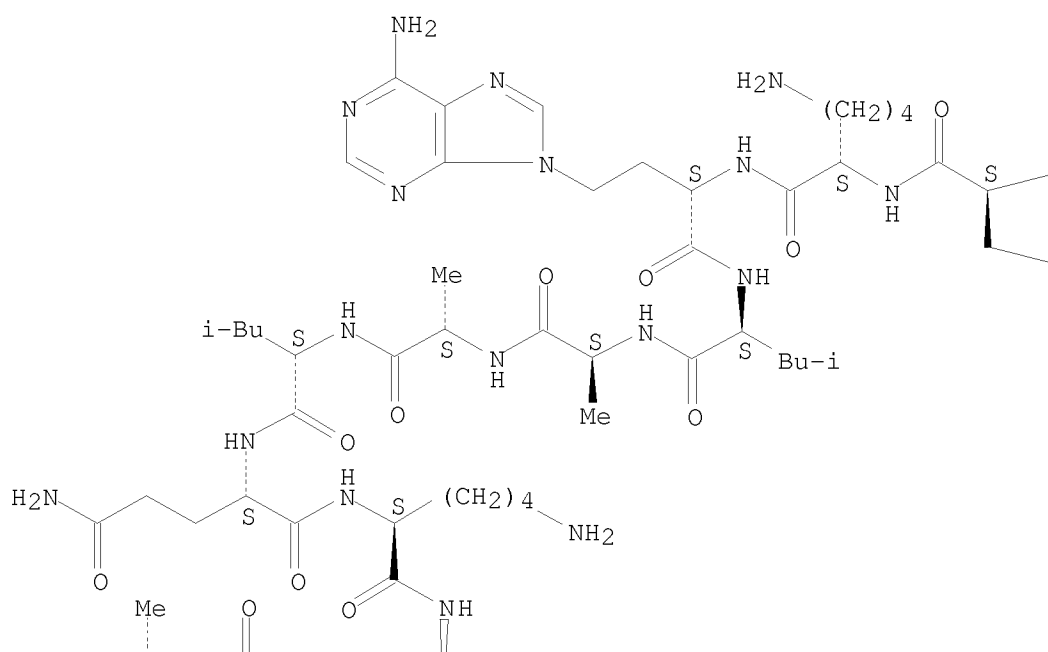
RN 623950-38-9 CAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-

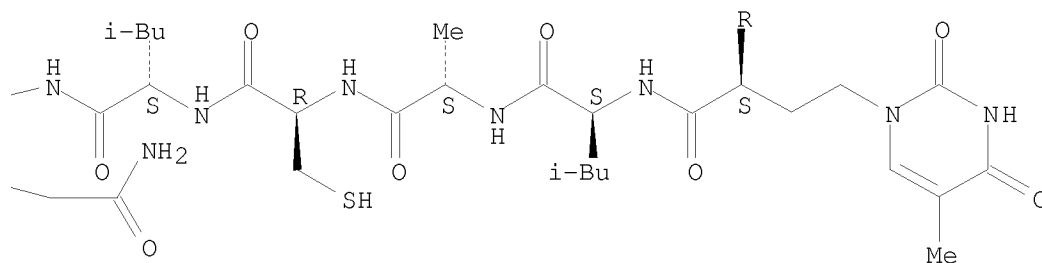
(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-leucyl-L-alanyl-L-cysteinyl-L-leucyl-L-glutaminy-L-lysyl-(α S)- α ,6-diamino-9H-purine-9-butanoyl-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

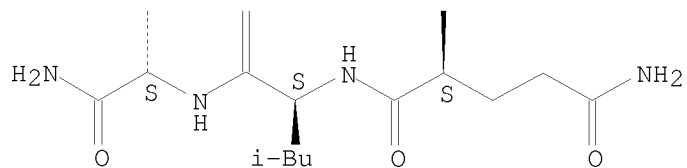
PAGE 1-A



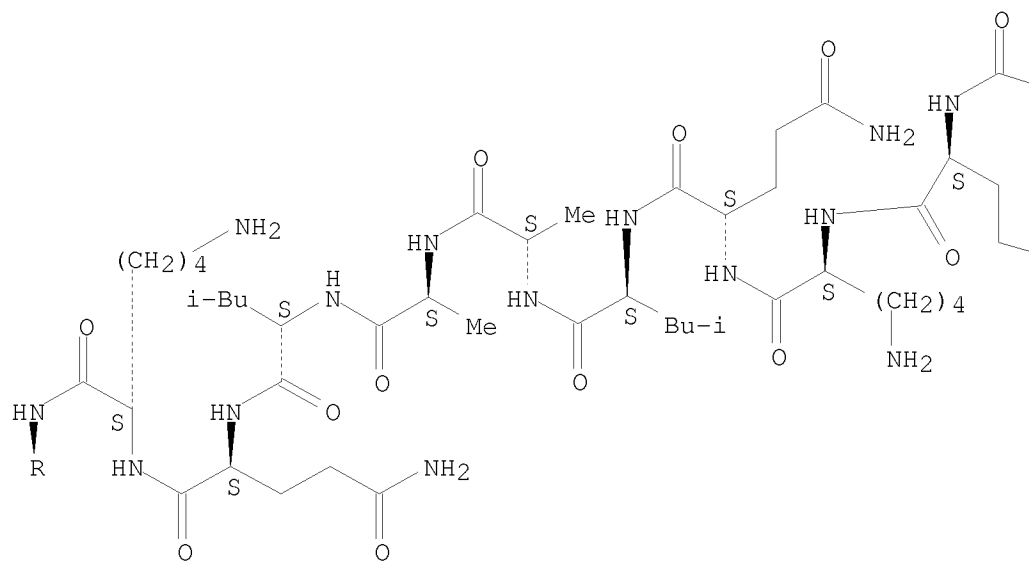
PAGE 1-B



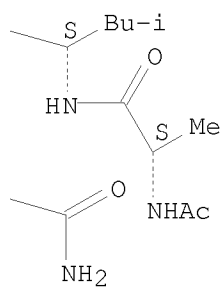
PAGE 2-A



PAGE 3-A



PAGE 3-B



IT 623950-41-4P

RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)

(effect of complementary nucleobase interaction on peptide-peptide

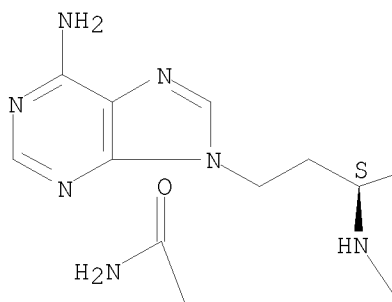
recognition and self-replicating catalysis)

RN 623950-41-4 CAPLUS

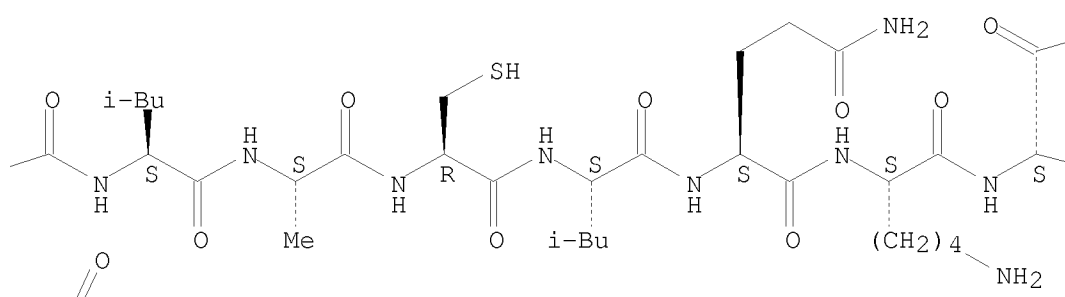
CN L-Alaninamide, N-acetyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-(α S)- α ,6-diamino-9H-purine-9-butanoyl-L-leucyl-L-alanyl-L-cysteiny-L-leucyl-L-glutaminy-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

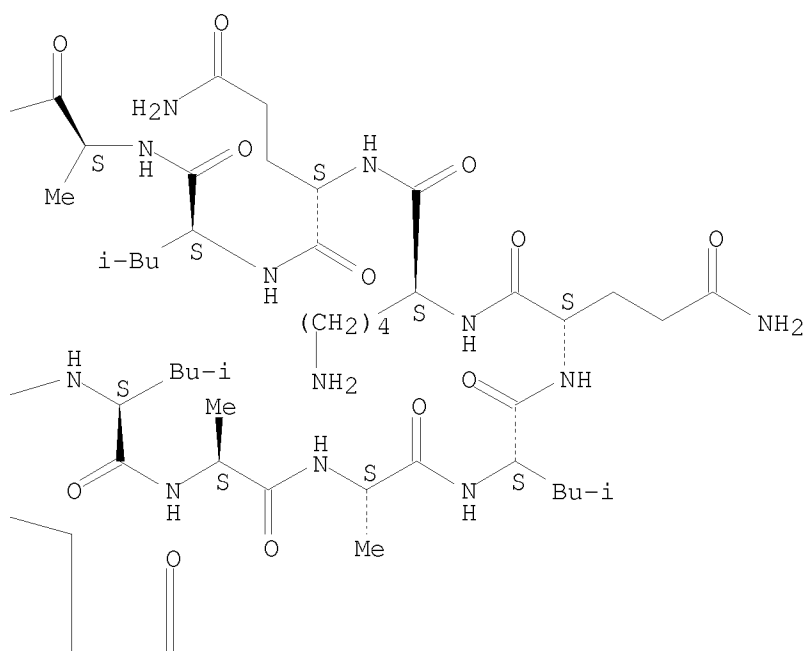
PAGE 1-A



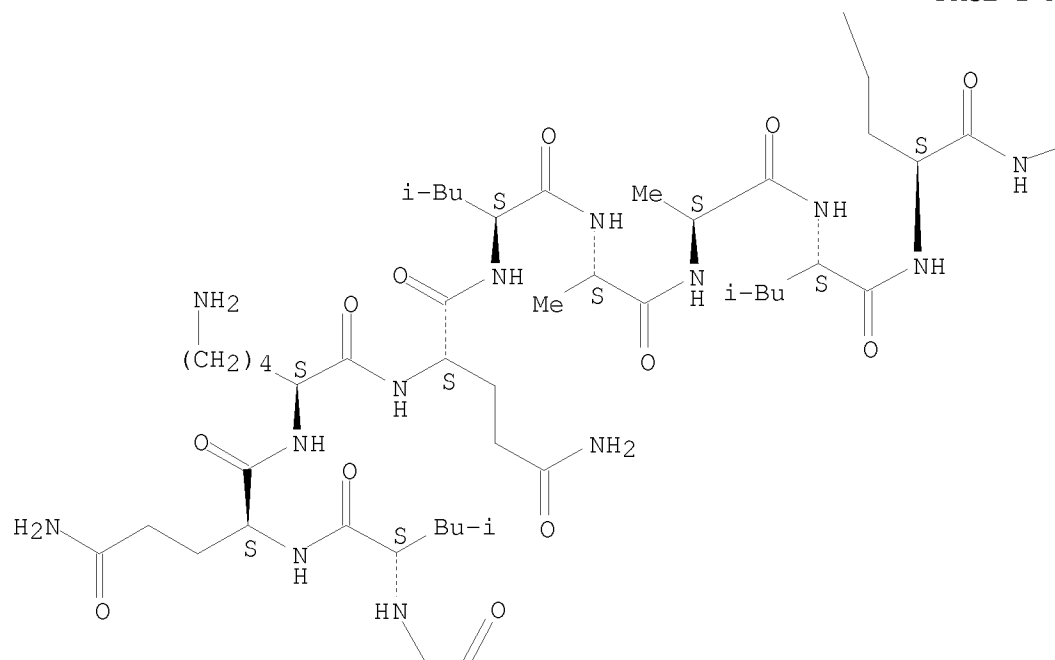
PAGE 1-B



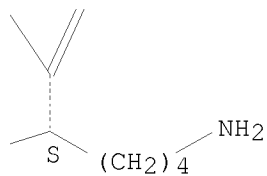
PAGE 1-C



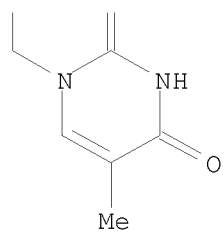
PAGE 2-A



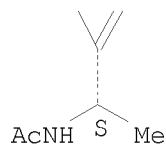
PAGE 2-B



PAGE 2-C



PAGE 3-A



IT 623950-33-4P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (effect of complementary nucleobase interaction on peptide-peptide recognition and self-replicating catalysis)

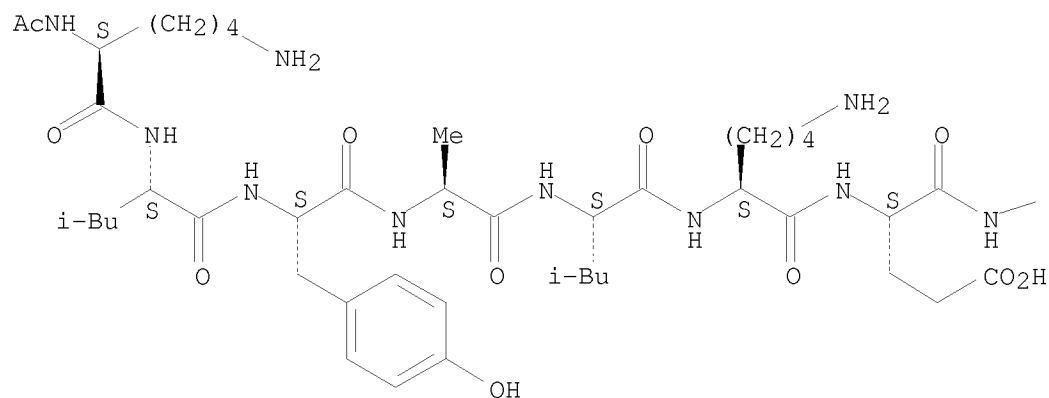
RN 623950-33-4 CAPLUS

CN L-Alanine, N2-acetyl-L-lysyl-L-leucyl-L-tyrosyl-L-alanyl-L-leucyl-L-lysyl-L- α -glutamyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-leucylglycyl-L-alanyl-L-leucyl-L-lysyl-L- α -glutamyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-leucylthio-, 17-S-(3-ethoxy-3-oxopropyl) ester (9CI) (CA INDEX NAME)

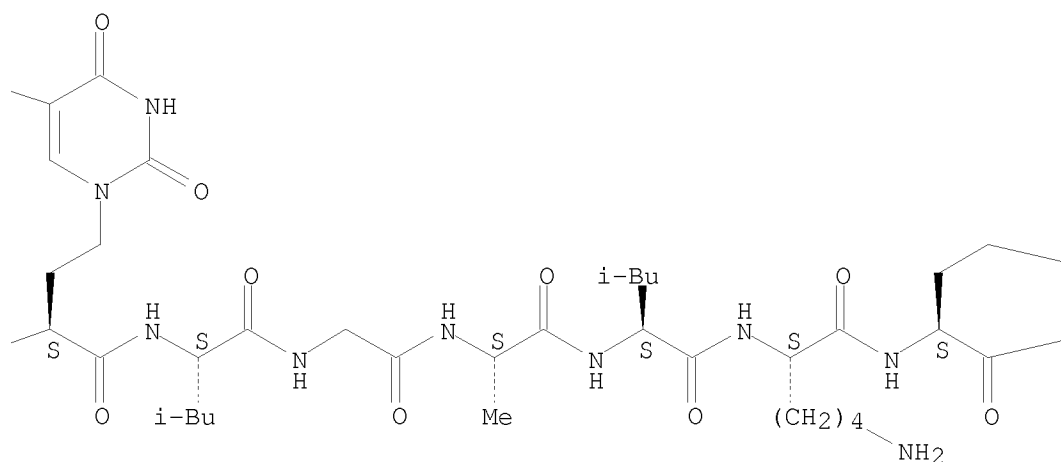
Absolute stereochemistry.

PAGE 1-A

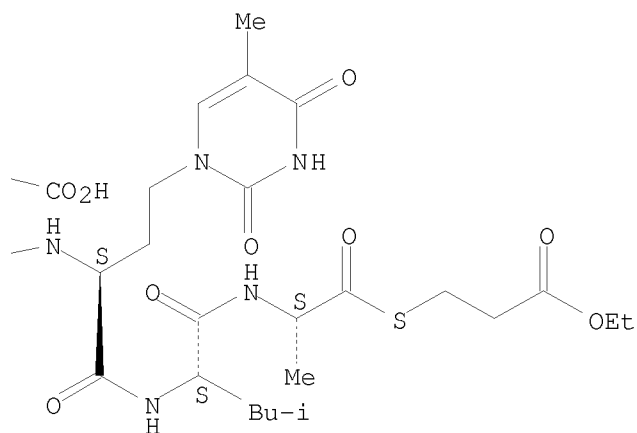
Me



PAGE 1-B



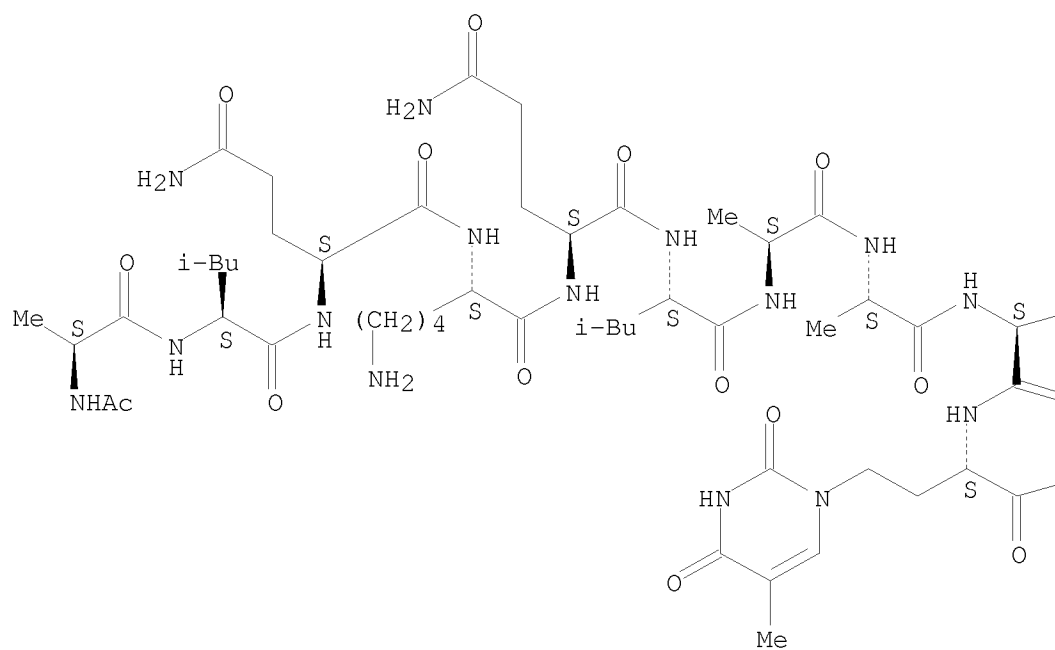
PAGE 1-C



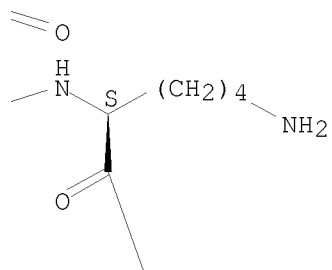
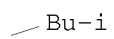
IT 623950-36-7P 623950-39-0P 623950-43-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (effect of complementary nucleobase interaction on peptide-peptide
 recognition and self-replicating catalysis)
 RN 623950-36-7 CAPLUS
 CN L-Alanine, N-acetyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-
 leucyl-L-alanyl-L-alanyl-L-leucyl-(α S)- α -amino-3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-L-glutaminy-L-
 leucylthio-, S-(3-ethoxy-3-oxopropyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

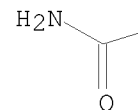
PAGE 1-A



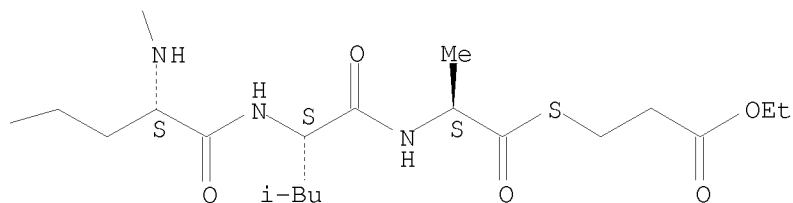
PAGE 1-B



PAGE 2-A



PAGE 2-B

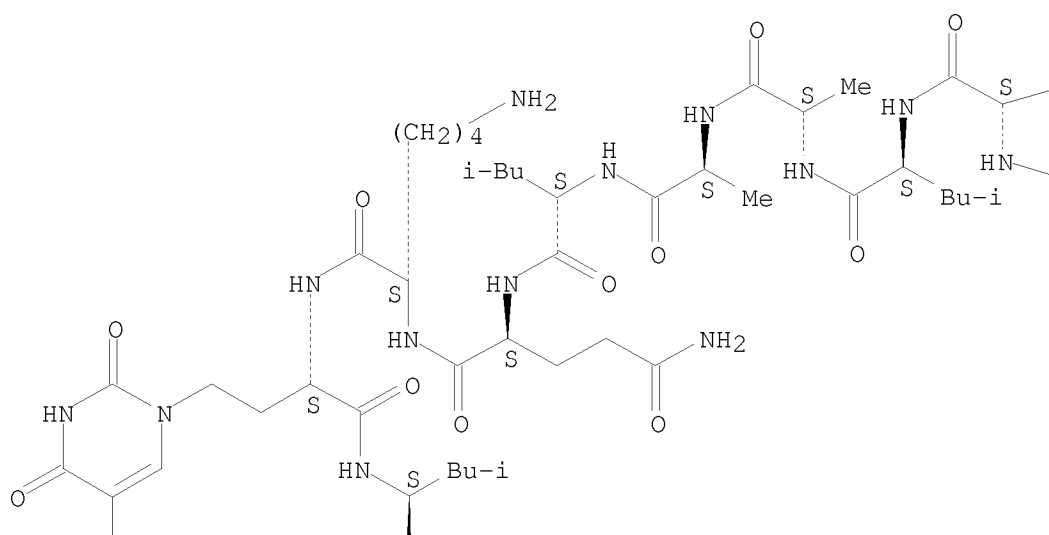


RN 623950-39-0 CAPLUS

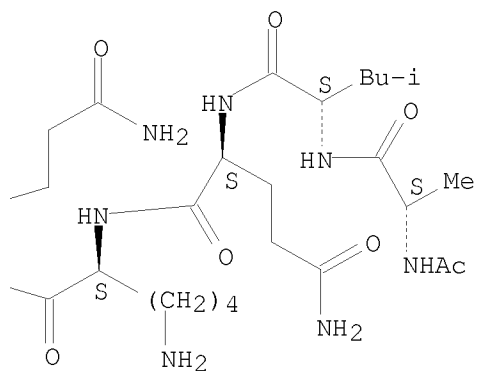
CN L-Alanine, N-acetyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-leucylthio-, S-(3-ethoxy-3-oxopropyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

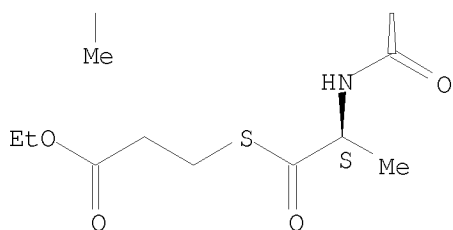
PAGE 1-A



PAGE 1-B



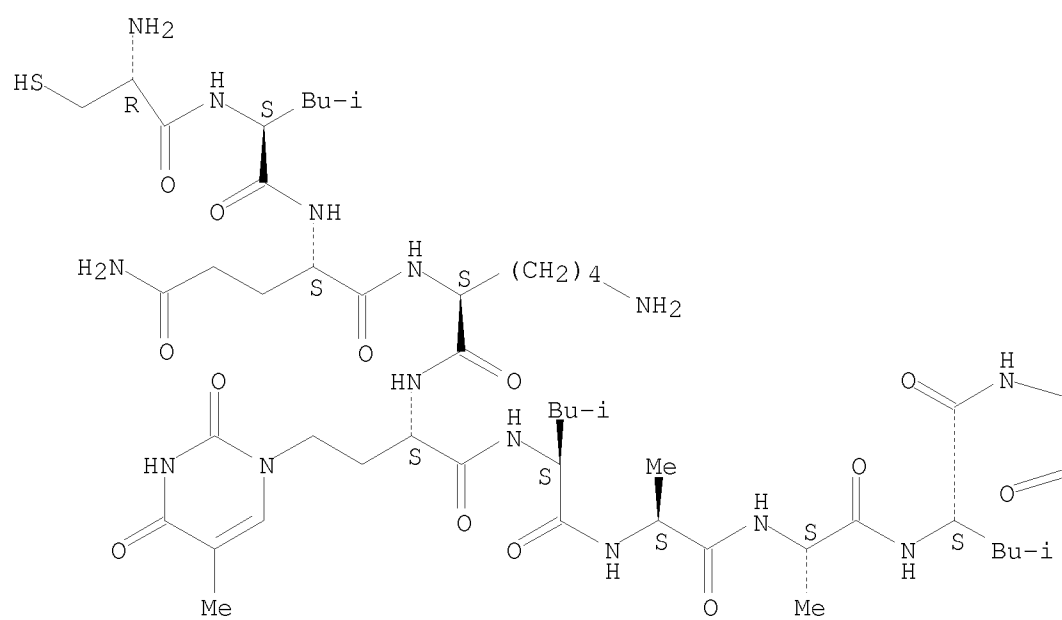
PAGE 2-A



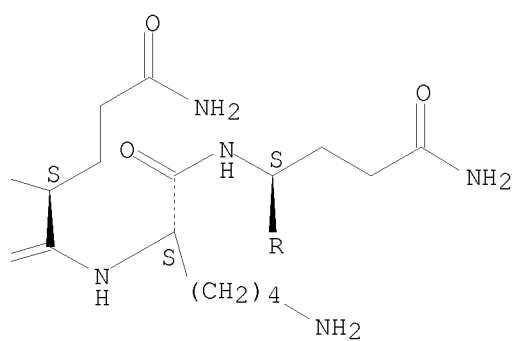
RN 623950-43-6 CAPLUS

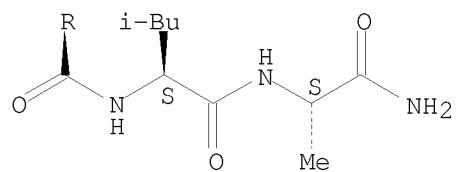
CN L-Alaninamide, L-cysteinyl-L-leucyl-L-glutaminy-L-lysyl-(α S)-
 α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-
 leucyl-L-alanyl-L-alanyl-L-leucyl-L-glutaminy-L-lysyl-L-glutaminy-L-
 leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



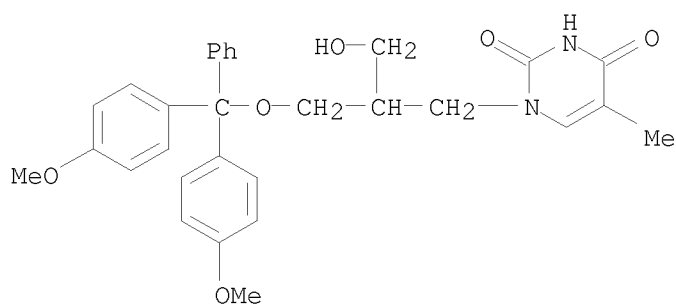
PAGE 1-B





OSC.G	11	THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
RE.CNT	69	THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 38 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:755804 CAPLUS
 DN 140:271121
 TI Acyclic, achiral enamide nucleoside analogues. The importance of the C:C bond in the analogue for its ability to mimic natural nucleosides
 AU Petersen, Asger B.; Petersen, Michael Ae.; Henriksen, Ulla; Hammerum, Steen; Dahl, Otto
 CS Department of Chemistry, The H. C. Orsted Institute, University of Copenhagen, Copenhagen, DK-2100, Den.
 SO Organic & Biomolecular Chemistry (2003), 1(19), 3293-3296
 CODEN: OBCRAK; ISSN: 1477-0520
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 140:271121
 AB The conformations of an acyclic, achiral enamide thymidine analog I have been studied by model building and geometry calcns., as well as by NMR NOE and UV expts. The results indicate that there are no significant barriers to rotation around any of the σ bonds, in particular the N1-C1' enamide bond, and that the analog should be able to accommodate conformations that mimic the conformations of natural nucleosides in A- and B-type helixes quite well. For comparison the saturated analog II has been prepared and built into oligonucleotides. It is shown that incorporation of II in oligonucleotides results in a much larger depression of the melting temperature (ΔT_m -10 to -12.5 °C) than does incorporation of I (ΔT_m -5 to -6.5 °C).
 IT 666237-25-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and phosphorylation of; importance of the C:C bond in an acyclic, achiral enamide nucleoside analog for its ability to mimic natural nucleosides)
 RN 666237-25-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-(hydroxymethyl)propyl]-5-methyl- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 39 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2003:356095 CAPLUS

DN 138:338411

TI Preparation of oligonucleotide labeling reactants based on acyclic nucleosides and conjugates derived thereof

IN Hovinen, Jari

PA Wallac Oy, Finland

SO Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

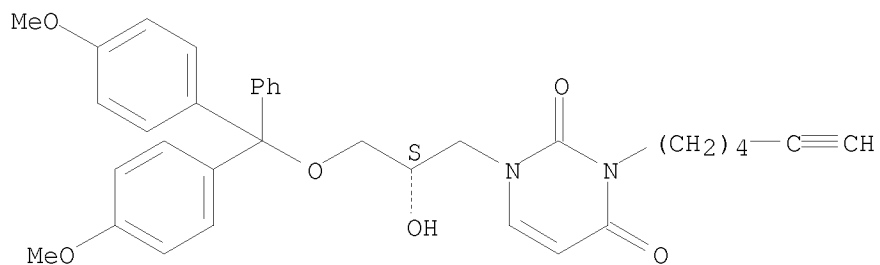
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1308452	A2	20030507	EP 2002-396153	20021010
	EP 1308452	A3	20041027		
	EP 1308452	B1	20080319		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 20030118999	A1	20030626	US 2001-985454	20011102
	US 7282581	B2	20071016		
	AT 389663	T	20080415	AT 2002-396153	20021010
PRAI	US 2001-985454	A	20011102		
AB	The invention relates to a labeling reactant of formula I useful for labeling an oligonucleotide wherein: R is a temporary protecting group; A is either a phosphorylating moiety or a solid support tethered to Z via a linker arm E; Z is a bridge point; E is a linker arm between R and Z; E1 is a linker arm between Z and Z1; E2 is a linker arm between Z and A; E3 is a linker arm between Z1 and G; Z1 is a purine or pyrimidine base; G is a protected bivalent aromatic structure, tethered to two iminodiacetic acid ester, protected functional group, protected or unprotected organic dye, hapten or a spin label. The invention also relates to a labeling reactant analogous to the one defined above useful for labeling an oligo- or polynucleotide using polymerases. The invention further relates to an oligonucleotide or polynucleotide conjugate that can be synthesized using said reactants. Thus, (S)-1-[3-(4,4'-dimethoxytrityl-2,3-dihydroxypropyl)-3-O-(2-cyanoethyl-N,N-diisopropyl)phosphoramidato]-3-(N6-trifluoroacetamido)hexyl)uracil was prepared				
IT	494784-04-2P	494784-07-5P	518027-18-4P		
	518027-22-0P				
	RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of oligonucleotide labeling reactants based on acyclic nucleosides and conjugates derived thereof)				
RN	494784-04-2	CAPLUS			
CN	2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3-(5-hexyn-1-yl)- (CA INDEX NAME)				

Absolute stereochemistry.

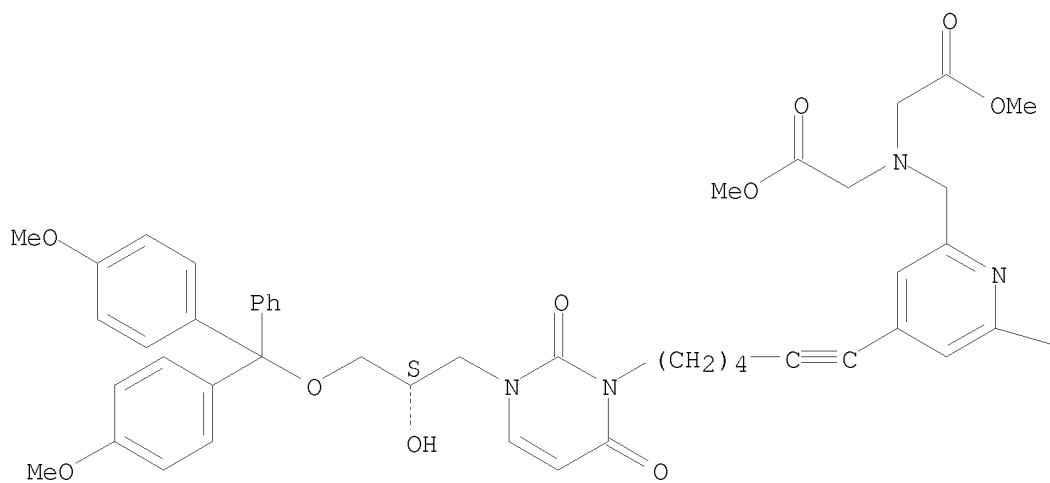


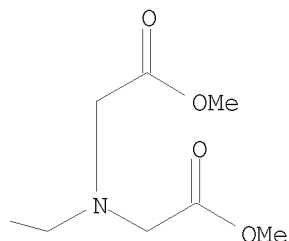
RN 494784-07-5 CAPLUS

CN Glycine, N,N'-[[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

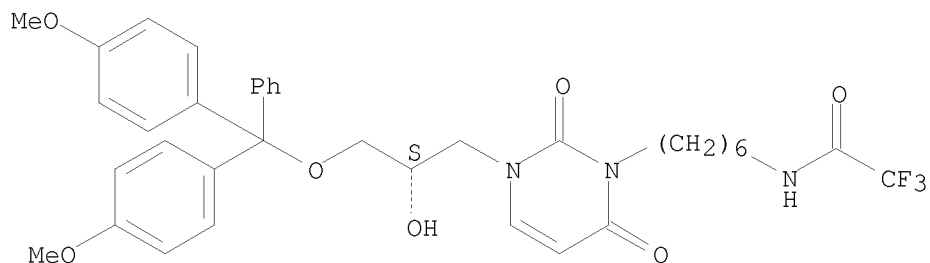




RN 518027-18-4 CAPLUS

CN Acetamide, N-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]hexyl]-2,2,2-trifluoro- (CA INDEX NAME)

Absolute stereochemistry.

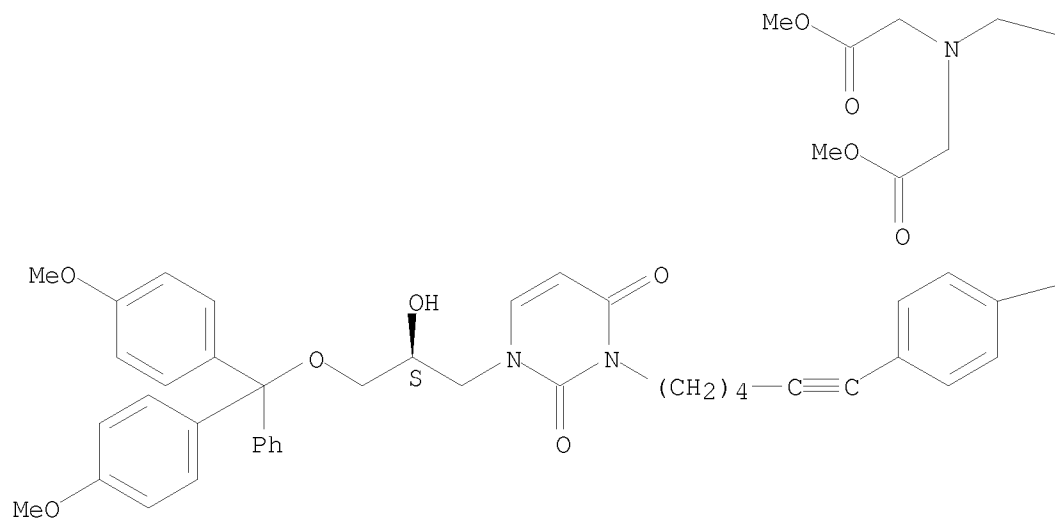


RN 518027-22-0 CAPLUS

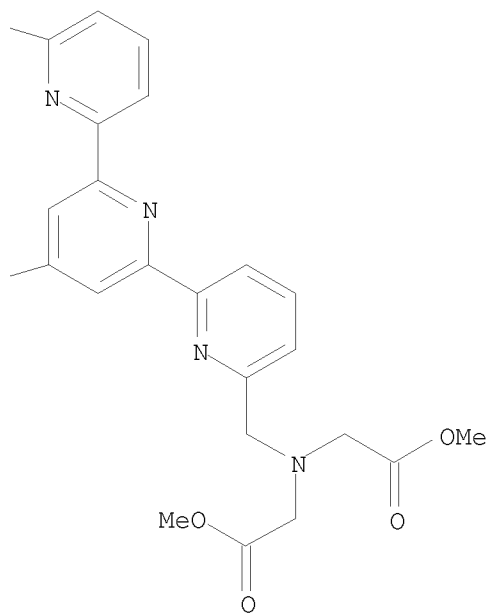
CN Glycine, N,N'-[[4'-[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



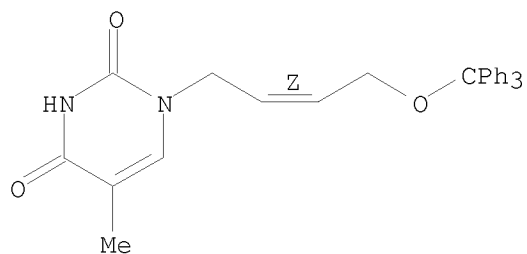
PAGE 1-B



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

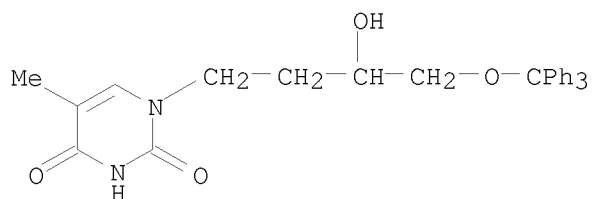
L11 ANSWER 40 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:78918 CAPLUS
 DN 139:143325
 TI Non-nucleoside inhibitors of mitochondrial thymidine kinase (TK-2)
 differentially inhibit the closely related herpes simplex virus type 1 TK
 and Drosophila melanogaster multifunctional deoxynucleoside kinase
 AU Balzarini, Jan; Hernandez, Ana-Isabel; Roche, Philippe; Esnouf, Robert;
 Karlsson, Anna; Camarasa, Maria-Jose; Perez-Perez, Maria-Jesus
 CS Rega Institute for Medical Research, Katholieke Universiteit Leuven,
 Louvain, Belg.
 SO Molecular Pharmacology (2003), 63(2), 263-270
 CODEN: MOPMA3; ISSN: 0026-895X
 PB American Society for Pharmacology and Experimental Therapeutics
 DT Journal
 LA English
 AB 5'-O-Trityl derivs. of thymidine (dThd),
 (E)-5-(2-bromovinyl)-2'-deoxyuridine (BVDU), and their acyclic analogs
 1-[(Z)-4-triphenylmethoxy-2-butenyl]thymine (KIN-12) and
 (E)-5-(2-bromovinyl)-1-[(Z)-4-triphenylmethoxy-2-butenyl]uracil (KIN-52)
 have been synthesized and evaluated for their inhibitory activity against
 the amino acid sequence related mitochondrial dThd kinase (TK-2), herpes
 simplex virus type 1 (HSV-1) TK, and Drosophila melanogaster
 multifunctional 2'-deoxynucleoside kinase (Dm-dNK). Several compds.
 proved markedly inhibitory to these enzymes and represent a new generation
 of nucleoside kinase inhibitors. KIN-52 was the most potent and selective
 inhibitor of TK-2 (IC₅₀, 1.3 μ M; K_i, 0.50 μ M; K_i/K_m, 0.37) but was
 not inhibitory against HSV-1 TK and Dm-dNK at 100 μ M. As found for the
 alternative substrate BVDU, the tritylated compds. competitively inhibited
 the three enzymes with respect to dThd. However, whereas BVDU behaved as
 a noncompetitive inhibitor (alternative substrate) of TK-2 and HSV-1 TK
 with respect to ATP as the varying substrate, the novel tritylated enzyme
 inhibitors emerged as reversible purely uncompetitive inhibitors of these
 enzymes. Computer-assisted modeling studies are in agreement with these
 findings. The tritylated compds. do not act as alternative substrates and
 they showed a type of kinetics against the nucleoside kinases different
 from that of BVDU. KIN-12, and particularly KIN-52, are the very first
 non-nucleoside specific inhibitors of TK-2 reported and may be useful for
 studying the physiol. role of the mitochondrial TK-2 enzyme.
 IT 471256-44-7 471256-50-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (non-nucleoside inhibitors of mitochondrial thymidine kinase (TK-2)
 differentially inhibit the closely related herpes simplex virus type 1
 TK and Drosophila melanogaster multifunctional deoxynucleoside kinase)
 RN 471256-44-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-
 1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



RN 471256-50-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-hydroxy-4-(triphenylmethoxy)butyl]-5-methyl- (CA INDEX NAME)



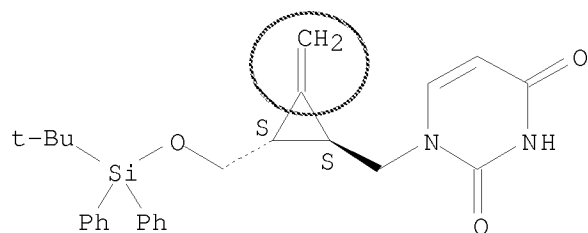
OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

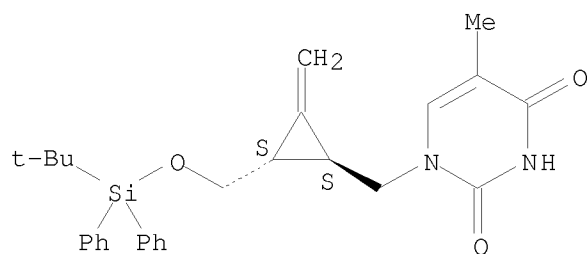
L11 ANSWER 41 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:12245 CAPLUS
 DN 138:255000
 TI Synthesis and antiviral activity of novel exomethylene cyclopropyl pyrimidine nucleosides
 AU Kook, Min Chul; Kim, Gu; Kwak, Eun Yee; Hong, Joon Hee; Lee, Chong Kyo; Choi, Bo Gil
 CS Department of Medicinal Chemistry, College of Pharmacy, Chonnam National University, Kwangju, 500-757, S. Korea
 SO Archives of Pharmacal Research (2002), 25(6), 790-794
 CODEN: APHRDQ; ISSN: 0253-6269
 PB Pharmaceutical Society of Korea
 DT Journal
 LA English
 OS CASREACT 138:255000
 AB A series of novel exomethylene cyclopropyl nucleosides, e.g. I, were synthesized starting from Feist's acid. Classical nucleophilic substitution conditions (K₂CO₃, 18-crown-6) of the tosylate as well as Mitsunobu reaction (DEAD, PPh₃) of alcs. with pyrimidine bases afforded a series of novel cyclopropyl nucleosides. Compound I displayed moderate anti-HBV activity without any cytotoxicity up to 100 µM.
 IT 502614-51-9P 502614-53-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and antiviral activity of novel exomethylene cyclopropyl pyrimidine nucleosides)
 RN 502614-51-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-3-methylenecyclopropyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 502614-53-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2R)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-3-methylenecyclopropyl]methyl]-5-methyl-, rel- (CA INDEX NAME)

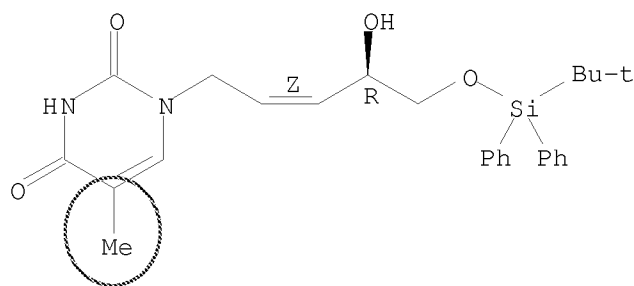
Relative stereochemistry.



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 42 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:977465 CAPLUS
 DN 138:153760
 TI An Expeditious and Efficient Procedure for the Synthesis of Unsaturated
 Acyclonucleosides of Z Configuration Related to D4T
 AU Bravo, Fernando; Viso, Antonio; Castillon, Sergio
 CS Departament de Quimica Analitica i Quimica Organica, Facultat de Quimica,
 Universitat Rovira i Virgili, Tarragona, 43005, Spain
 SO Journal of Organic Chemistry (2003), 68(3), 1172-1175
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 138:153760
 AB Enantiopure 2,5-dihydrofuran derivs. were prepared from (S)-glycidol through
 a new reaction sequence involving epoxide opening with a vinylcuprate,
 selenium-induced cyclization to give exclusively the 5-endo product, and
 regioselective selenoxide elimination. Unsatd. acyclo-nucleosides of Z
 configuration were obtained in a straightforward manner by treating
 2,5-dihydrofuran with iodotrimethylsilane in the presence of silylated
 purinic or pyrimidinic bases. This synthetic process involves opening of
 the dihydrofuran ring by trimethylsilyl iodide and substitution of iodine
 by the nucleic base in a single reaction step.
 IT 494834-50-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of unsatd. acyclonucleosides of Z configuration related to
 D4T from (S)-glycidol via epoxide opening, cyclization, and
 regioselective elimination reactions)
 RN 494834-50-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z,4R)-5-[[[1,1-
 dimethylethyl)diphenylsilyl]oxy]-4-hydroxy-2-penten-1-yl]-5-methyl- (CA
 INDEX NAME)

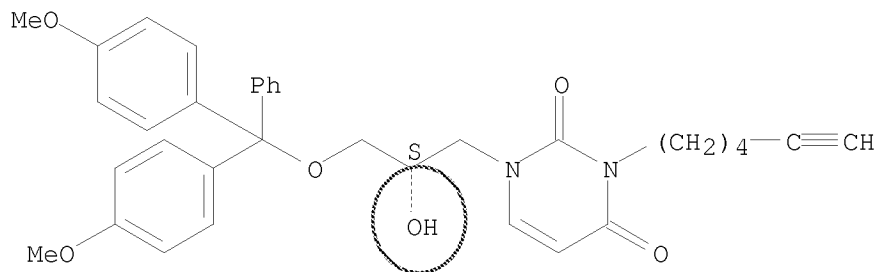
Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 43 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:831342 CAPLUS
 DN 138:298260
 TI Oligonucleotide conjugates based on acyclonucleosides and their use in DNA hybridization assays
 AU Hakala, Harri; Ollikka, Pia; Degerholm, Jenni; Hovinen, Jari
 CS PerkinElmer Life Sciences, Turku, FIN-20101, Finland
 SO Tetrahedron (2002), 58(43), 8771-8777
 CODEN: TETRAB; ISSN: 0040-4020
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 AB Synthesis of two oligonucleotide building blocks based on acyclonucleosides (10, 11) which enable the introduction of several nonluminescent and luminescent lanthanide(III) chelates to the oligonucleotide structure is described. They were used in an instrument-assisted DNA synthesis in a standard manner. A modified deprotection procedure was used to ensure metal complexation. Also the applicability of these oligonucleotide conjugates to DNA hybridization assays is demonstrated.
 IT 494784-04-2P 494784-07-5P 494784-09-7P
 494784-12-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (oligonucleotide conjugates based on acyclonucleosides and their use in DNA hybridization assays)
 RN 494784-04-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3-(5-hexyn-1-yl)- (CA INDEX NAME)

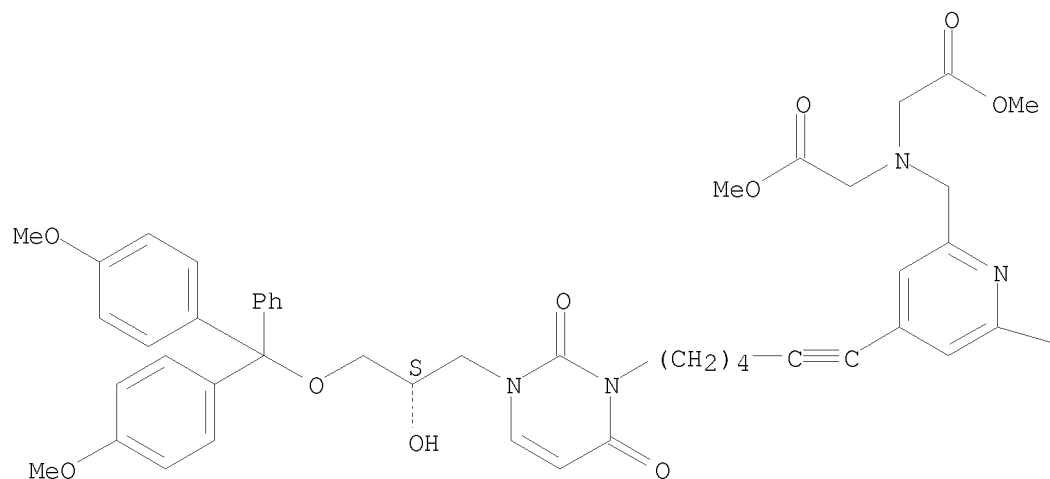
Absolute stereochemistry.



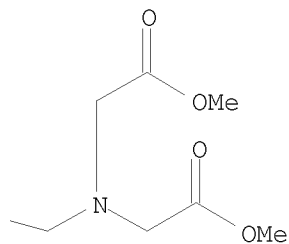
RN 494784-07-5 CAPLUS
 CN Glycine, N,N'-[[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

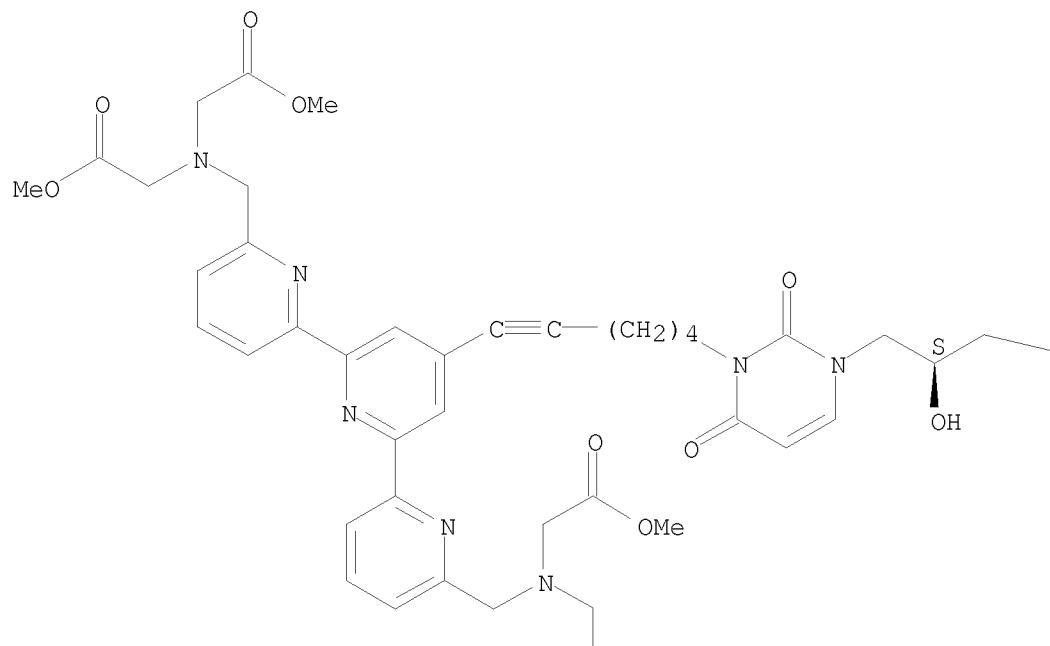


RN 494784-09-7 CAPLUS

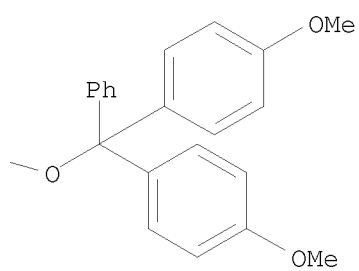
CN Glycine, N,N'-[[4'-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

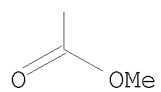
PAGE 1-A



PAGE 1-B

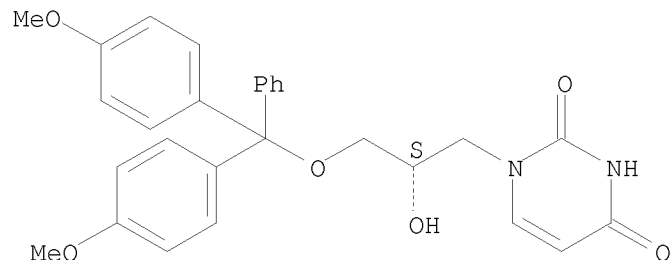


PAGE 2-A



CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]- (CA INDEX NAME)

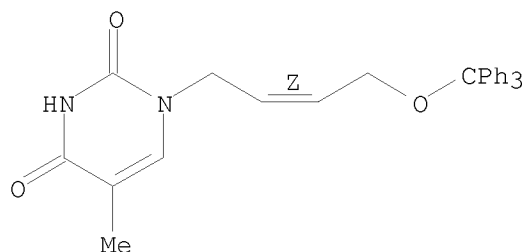
Absolute stereochemistry. Rotation (-).



OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

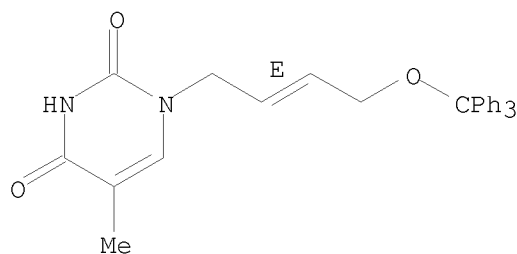
L11 ANSWER 44 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:610836 CAPLUS
 DN 137:311143
 TI Acyclic Nucleoside Analogs as Novel Inhibitors of Human Mitochondrial Thymidine Kinase
 AU Hernandez, Ana-Isabel; Balzarini, Jan; Karlsson, Anna; Camarasa, Maria-Jose; Perez-Perez, Maria-Jesus
 CS Instituto de Quimica Medica (CSIC), Madrid, 28006, Spain
 SO Journal of Medicinal Chemistry (2002), 45(19), 4254-4263
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 137:311143
 AB Acyclic nucleoside analogs of 5'-O-tritylthymidine have been synthesized and evaluated as potential human mitochondrial thymidine kinase (TK-2) inhibitors. In this series, the sugar moiety of the parent 5'-O-tritylthymidine has been replaced by aliphatic chains including (E)- and (Z)-butenol, butynol, or butanol. Among them the (Z)-butenyl derivative [I, Q = (Z)-CH:CH] showed an IC50 against TK-2 of 1.5 μ M, being 1 order of magnitude more potent than the parent 5'-O-tritylthymidine. This lead compound has been further modified by replacing the thymine base by other pyrimidine bases such as 5-iodouracil, 5-ethyluracil, 5-methylcytosine, 3-N-methylthymine, or 5,6-dihydrothymine, as well as by the purine base guanine. The trityl group has also been replaced by different aliphatic and aromatic acyl moieties including tert-butylacetyl, hexanoyl, decanoyl, and diphenylacetyl moieties. The evaluation of the compds. against TK-2 and the phylogenetically close HSV-1 TK has shown that the base moiety plays a crucial role in their interaction against these pyrimidine nucleoside kinases. Also, the presence of a lipophilic substituent, preferentially an aromatic moiety such as diphenylmethyl or triphenylmethyl, is required for efficient TK-2 inhibition. Whereas some compds. showed marked specificity for either TK-2 (i.e., the 5,6-dihydrothymine derivative) or HSV-1 TK [i.e., the butynyl derivative, I (Q = C.tplbond.C)], some others, including the (Z)- and (E)-butenyl derivs., showed significant inhibition against both enzymes. They also proved to be inhibitory against HSV-1 TK in intact human osteosarcoma cells that were transduced with the HSV-1 TK gene.
 IT 471256-44-7P
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (acyclic nucleoside analogs of 5'-O-tritylthymidine as inhibitors of human mitochondrial thymidine kinase)
 RN 471256-44-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

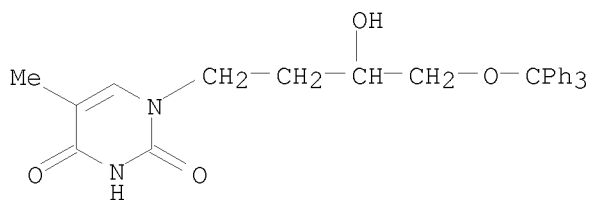


IT 471256-47-0P 471256-50-5P 471256-51-6P
 471256-52-7P 471256-59-4P 471256-60-7P
 471256-61-8P 471256-64-1P
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
 SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (acyclic nucleoside analogs of 5'-O-tritylthymidine as inhibitors of
 human mitochondrial thymidine kinase)
 RN 471256-47-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(2E)-4-(triphenylmethoxy)-2-buten-
 1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

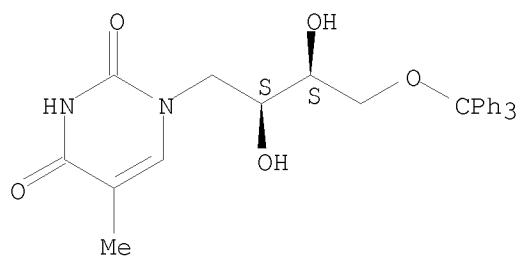


RN 471256-50-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-hydroxy-4-(triphenylmethoxy)butyl]-5-
 methyl- (CA INDEX NAME)

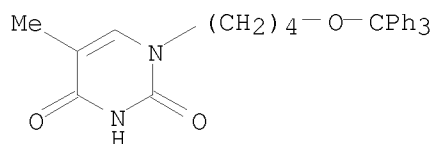


RN 471256-51-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R,3R)-2,3-dihydroxy-4-
 (triphenylmethoxy)butyl]-5-methyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

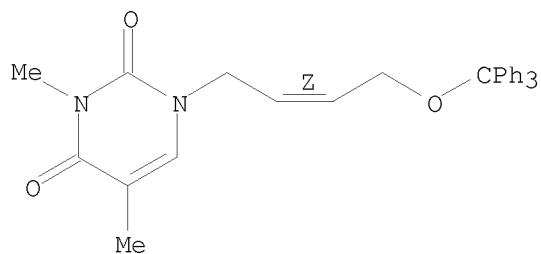


RN 471256-52-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[4-(triphenylmethoxy)butyl]- (CA INDEX NAME)

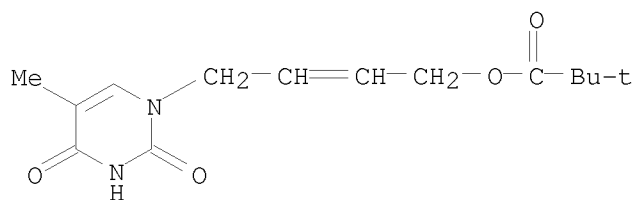


RN 471256-59-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3,5-dimethyl-1-[(2Z)-4-(triphenylmethoxy)-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

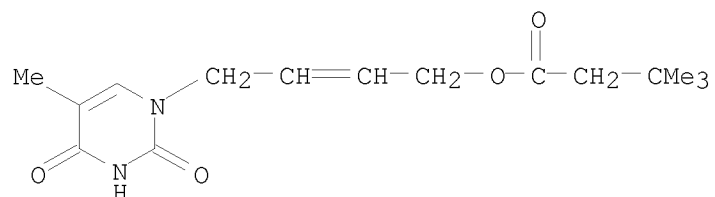


RN 471256-60-7 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-buten-1-yl ester (CA INDEX NAME)



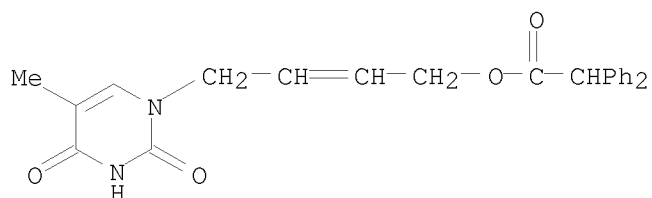
RN 471256-61-8 CAPLUS
 CN Butanoic acid, 3,3-dimethyl-, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-

pyrimidinyl)-2-buten-1-yl ester (CA INDEX NAME)



RN 471256-64-1 CAPLUS

CN Benzeneacetic acid, α -phenyl-,
4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-buten-1-yl ester
(CA INDEX NAME)



OSC.G 22 THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 45 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:595034 CAPLUS

DN 137:151580

TI Oligonucleotide analogs containing linked bases, methods for their synthesis, and their use in modulating gene expression and treatment of diseases

IN Segev, David

PA Bio-Rad Laboratories, Inc., USA

SO PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002061110	A2	20020808	WO 2002-IL83	20020129
	WO 2002061110	A3	20030206		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2436665	A1	20020808	CA 2002-2436665	20020129
	AU 2002230058	A1	20020812	AU 2002-230058	20020129
	AU 2002230058	B2	20051117		
	US 20030191074	A1	20031009	US 2002-57928	20020129
	US 7034131	B2	20060425		
	EP 1363640	A2	20031126	EP 2002-711178	20020129
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004537503	T	20041216	JP 2002-561045	20020129
	US 20060148751	A1	20060706	US 2006-365928	20060302
	US 7348148	B2	20080325		
	US 20090005334	A1	20090101	US 2008-71275	20080219
PRAI	US 2001-264308P	P	20010129		
	US 2002-57928	A3	20020129		
	WO 2002-IL83	W	20020129		
	US 2006-365928	A1	20060302		

OS MARPAT 137:151580

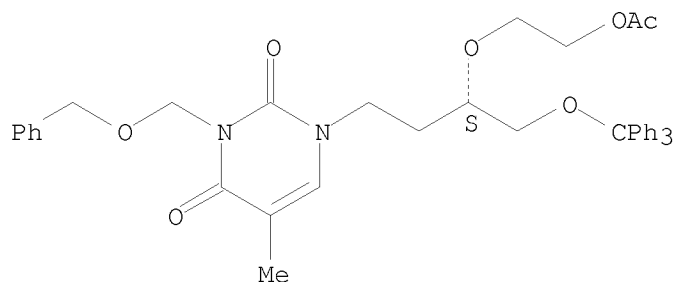
AB Nucleic acid and oligonucleotide analogs containing nucleobases attached to chiral carbons in the backbone and containing ≥ 1 pairs of adjacent nucleobases covalently linked together are disclosed. The backbone may be a polyether, e.g., PEG, or polyether derivs. such as poly(ether-thioether), poly(ether-sulfone), and poly(ether-sulfoxide). Linked dimer building blocks and methods for their synthesis as well as methods for solution or solid phase synthesis of the oligo- and polynucleotide analogs are disclosed. The analogs may be used to modulate gene expression and to treat diseases. Thus, the solution phase and solid phase synthesis of PEG-linked oligo-T was demonstrated. The synthesis of a thymidine-linked thymidine dimer with PEG backbone was also shown.

IT 445377-43-5P 445377-44-6P 445377-45-7P
445377-46-8P 445377-48-0P 445377-49-1P

445377-50-4P 445377-54-8DP, conjugates with Wang resin
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (oligonucleotide analogs containing linked bases, methods for their
 synthesis, and their use in modulating gene expression and treatment of
 diseases)

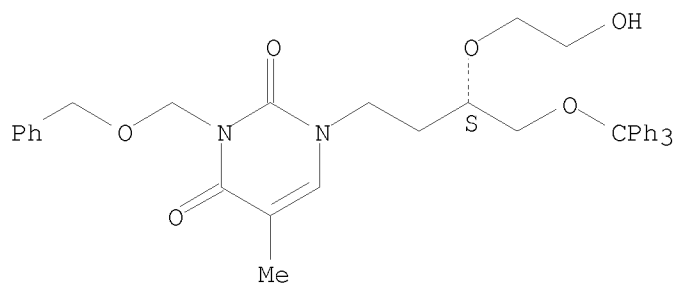
RN 445377-43-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S)-3-[2-(acetyloxy)ethoxy]-4-
 (triphenylmethoxy)butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX
 NAME)

Absolute stereochemistry.



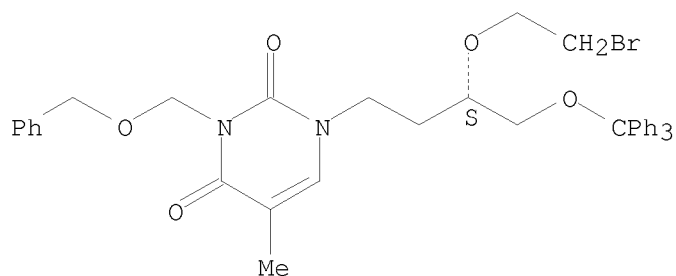
RN 445377-44-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S)-3-(2-hydroxyethoxy)-4-
 (triphenylmethoxy)butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX
 NAME)

Absolute stereochemistry.



RN 445377-45-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S)-3-(2-bromoethoxy)-4-
 (triphenylmethoxy)butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX
 NAME)

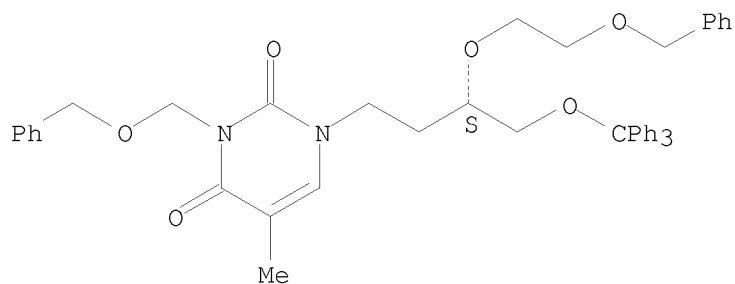
Absolute stereochemistry.



RN 445377-46-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-[(3S)-3-[2-(phenylmethoxy)ethoxy]-4-(triphenylmethoxy)butyl]-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

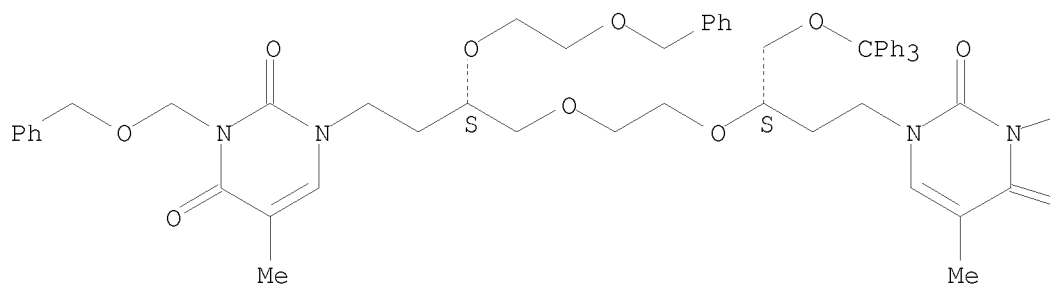


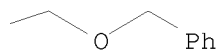
RN 445377-48-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S,9S)-9-[2-[3,4-dihydro-5-methyl-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]ethyl]-14-phenyl-3-[(triphenylmethoxy)methyl]-4,7,10,13-tetraoxatetradec-1-yl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

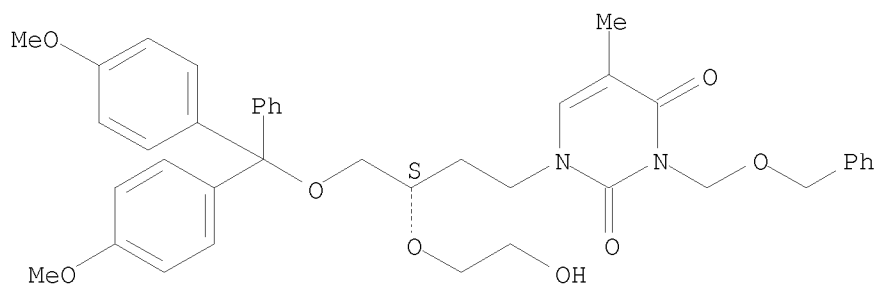
PAGE 1-A





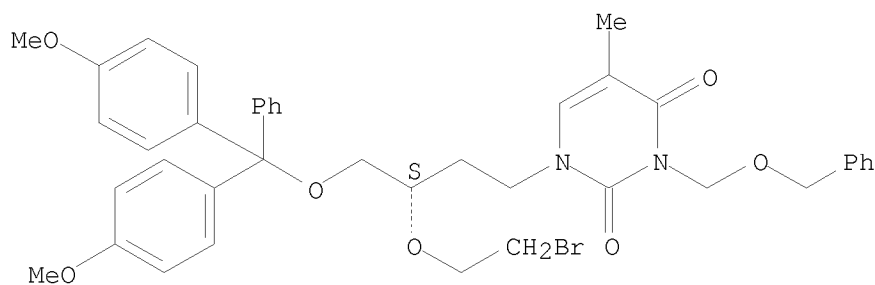
RN 445377-49-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S)-4-[bis(4-methoxyphenyl)phenylmethoxy]-3-(2-hydroxyethoxy)butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 445377-50-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(3S)-4-[bis(4-methoxyphenyl)phenylmethoxy]-3-(2-bromoethoxy)butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)

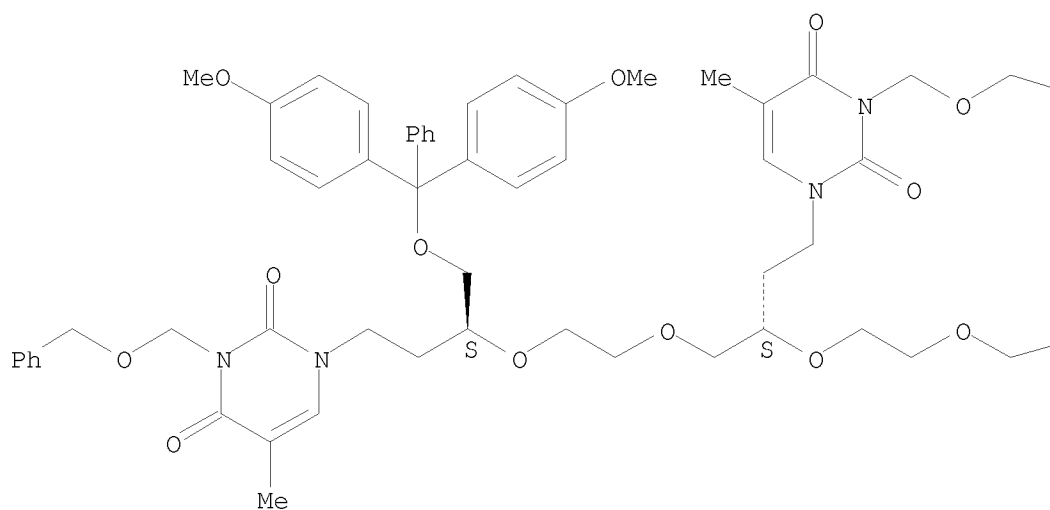
Absolute stereochemistry.



RN 445377-54-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,1'-[(3S,9S,15S)-3-[[bis(4-methoxyphenyl)phenylmethoxy)methyl]-9-[2-[3,4-dihydro-5-methyl-2,4-dioxo-3-[(phenylmethoxy)methyl]-1(2H)-pyrimidinyl]ethyl]-15-(2-hydroxyethoxy)-4,7,10,13-tetraoxaheptadecane-1,17-diyl]bis[5-methyl-3-[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)

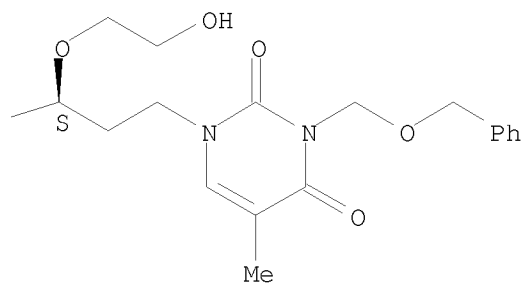
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

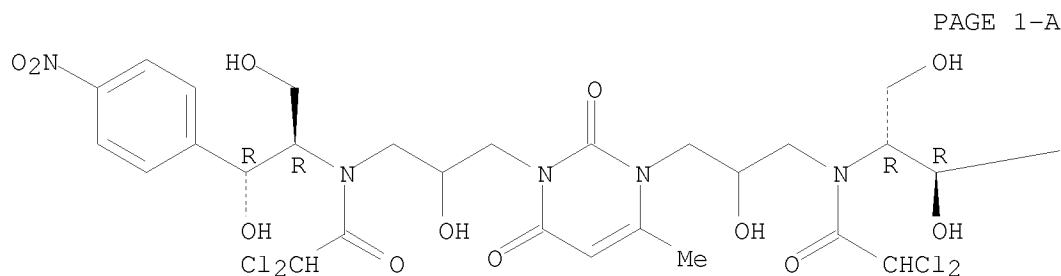
— Ph



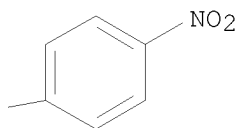
OSC.G	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 46 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:556316 CAPLUS
 DN 138:162972
 TI Synthesis of pharmacological characterization of new acyclonucleoside derivatives
 AU Krivonogov, V. P.; Kozlova, G. G.; Sivkova, G. A.; Kil'metova, I. R.; Belov, A. E.; Abdrakhmanov, I. B.; Ismagilova, A. F.; Spirikhin, L. V.; Kochurova, I. Yu.
 CS Institute of Organic Chemistry, Ufa Scientific Center, Russian Academy of Sciences, Ufa, Russia
 SO Pharmaceutical Chemistry Journal (Translation of Khimiko-Farmatsevticheskii Zhurnal) (2002), 36(1), 7-10
 CODEN: PCJOAU; ISSN: 0091-150X
 PB Kluwer Academic/Consultants Bureau
 DT Journal
 LA English
 OS CASREACT 138:162972
 AB A series of new pyrimidine derivs., acyclonucleosides, including 1,3-bis(2-hydroxy-3-chloropropyl)uracil (I), 1,3-bis(2-hydroxy-3-chloropropyl)-6-methyluracil (II), 1,3-(bis(2-hydroxy-3-levomycetinopropyl)uracil) (III), 1,3-bis(2-hydroxy-3-levomycetinopropyl)-6-methyluracil (IV), 1,3-bis(2-hydroxy-3-piperidinopropyl)uracil (V), and 1,3-bis(2-hydroxy-3-piperidinopropyl)-6-methyluracil (VI) was synthesized and characterized. The lethal dosed, LD50 values of compds. IV-VI upon i.p. administration were 5500.0±125.0, 3800.0±150.0, and 4000.0±54.4 mg/kg, resp. Compds. IV and V did not change, while VI and hydroxymethyluracil (HMU) inhibited the delay type hypersensitivity reaction. Compds. IV and VI stimulated the production of splenic antibody-forming cells upon immunization with goat erythrocytes, the effects being more pronounced compared to that of HMU and levomycetin. On the model of carrageenan-induced inflammation, compds. IV and VI considerably inhibited edema growth.
 IT 497162-76-2P
 RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (synthesis and pharmacol. characterization of new acyclonucleoside derivs.)
 RN 497162-76-2 CAPLUS
 CN Acetamide, N,N'-[(6-methyl-2,4-dioxo-1,3(2H,4H)-pyrimidinediyl)bis(2-hydroxy-3,1-propanediyl)]bis[2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



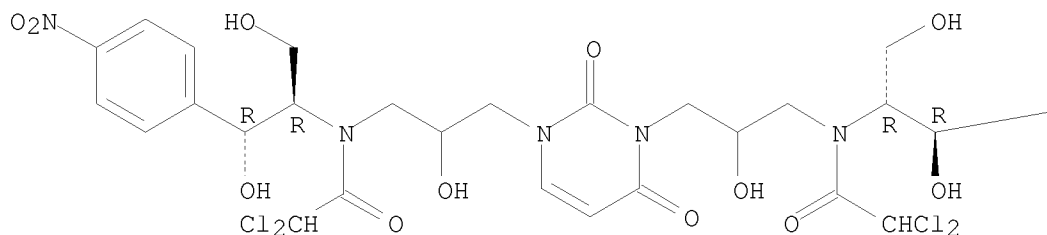
PAGE 1-B



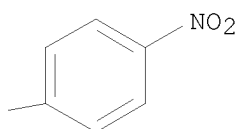
IT 497162-75-1P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and pharmacol. characterization of new acyclonucleoside derivs.)
 RN 497162-75-1 CAPLUS
 CN Acetamide, N,N'-[(2,4-dioxo-1,3(2H,4H)-pyrimidinediyl)bis(2-hydroxy-3,1-propanediyl)]bis[2,2-dichloro-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 47 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:136067 CAPLUS
 DN 136:179042
 TI Poly(ether-thioether)-, poly(ether-sulfoxide)-, and poly(ether-sulfone)
 nucleic acids, their synthesis and use in medicine and biochemistry
 IN Segev, David
 PA Bio-Rad Laboratories, Inc., USA
 SO U.S., 46 pp., Cont.-in-part of U.S. Ser. 384,995, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

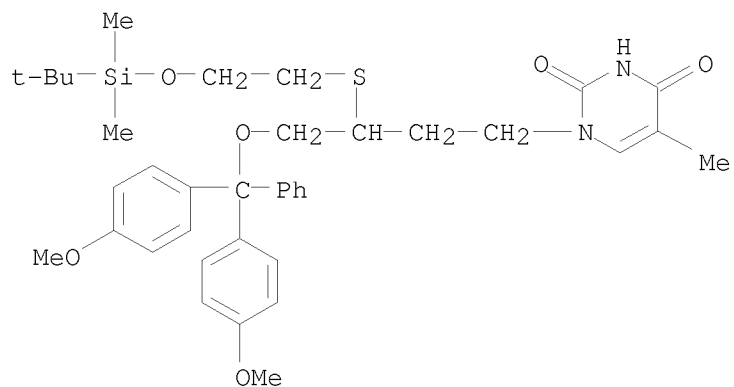
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6348583	B1	20020219	US 1999-411862	19991004
	CA 2382631	A1	20010308	CA 2000-2382631	20000721
	WO 2001016365	A1	20010308	WO 2000-IL432	20000721
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1208234	A1	20020529	EP 2000-946256	20000721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003508062	T	20030304	JP 2001-520910	20000721
	AU 769619	B2	20040129	AU 2000-60126	20000721
PRAI	US 1999-384995	B2	19990830		
	US 1999-411862	A	19991004		
	WO 2000-IL432	W	20000721		

AB A compound comprising a poly(ether-thioether), poly(ether-sulfoxide) or poly(ether-sulfone) backbone bearing a plurality of ligands that are individually bound to chiral carbon atoms located within the backbone, at least one of the ligands including a moiety such as a naturally occurring nucleobase, a nucleobase binding group; a process of synthesizing the compound; monomers to be used in this process and their synthesis; and processes for using the compound in biochem. (e.g., in hybridization) and medicine (e.g., as pharmaceuticals to treat diseases or viral infections) are disclosed.

IT 328409-86-5P 328409-87-6P 328409-88-7P
 328409-89-8P 328409-90-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (poly(ether-thioether)-, poly(ether-sulfoxide)-, and poly(ether-sulfone) nucleic acids, their synthesis and use in medicine and biochem.)

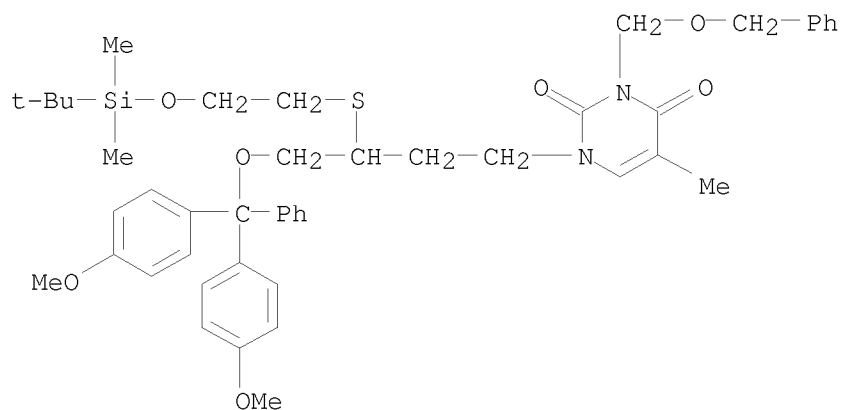
RN 328409-86-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl- (CA INDEX NAME)



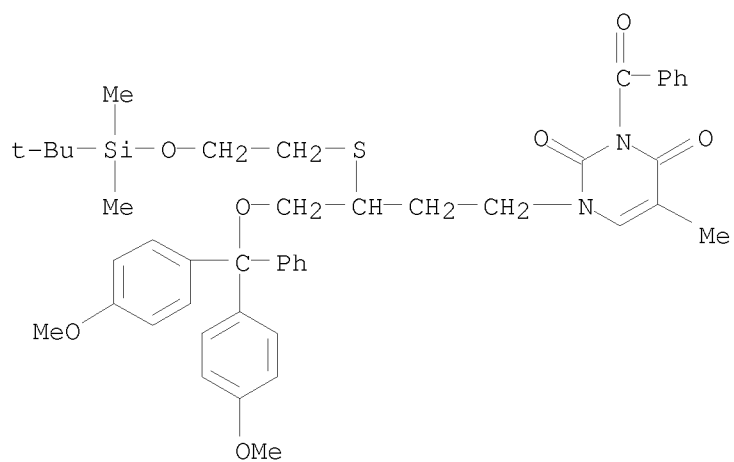
RN 328409-87-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



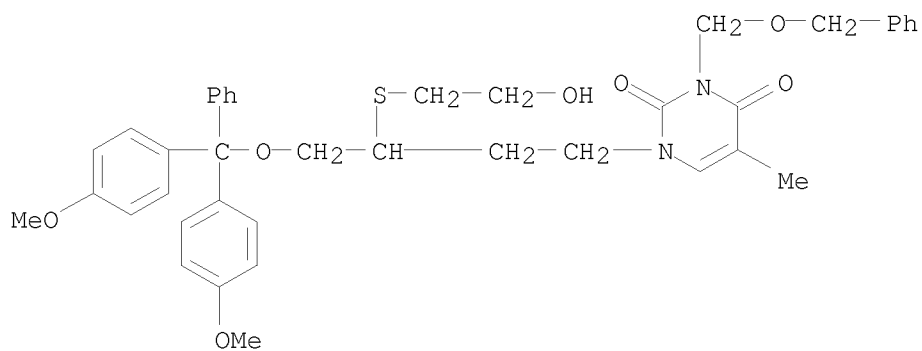
RN 328409-88-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl- (CA INDEX NAME)



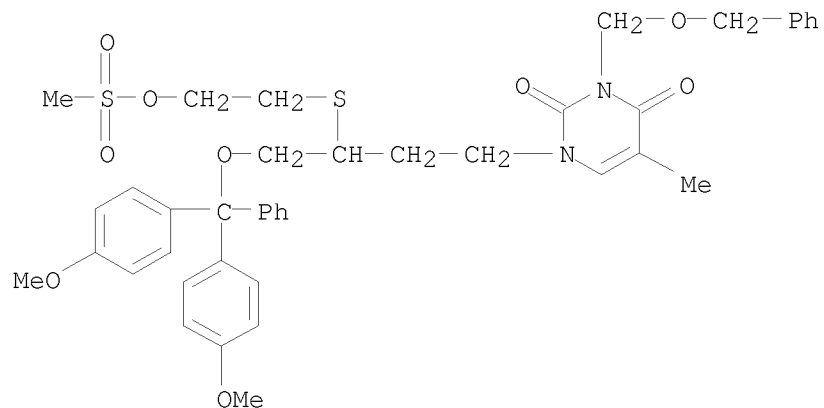
RN 328409-89-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[(2-hydroxyethyl)thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



RN 328409-90-1 CAPLUS

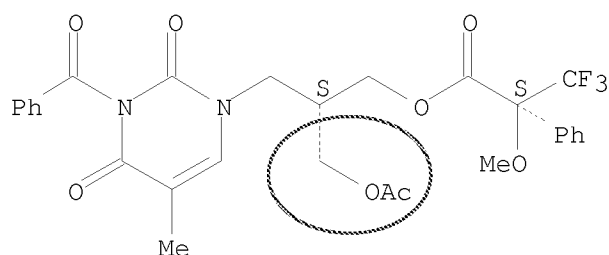
CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[(methylsulfonyl)oxy]ethyl]thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

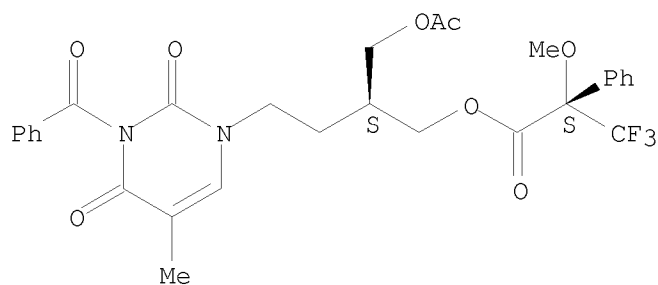
L11 ANSWER 48 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:70720 CAPLUS
 DN 136:310141
 TI Chemo-enzymatic synthesis of novel β -amino acids substituted by
 (thymine-1-yl)methyl functional group at the α -position
 AU Yokomatsu, Tsutomu; Takada, Ken; Yasumoto, Akihito; Yuasa, Yoko; Shibuya,
 Shiroshi
 CS School of Pharmacy, Tokyo University of Pharmacy and Life Science, Tokyo,
 192-0392, Japan
 SO Heterocycles (2002), 56(1-2), 545-552
 CODEN: HTCYAM; ISSN: 0385-5414
 PB Japan Institute of Heterocyclic Chemistry
 DT Journal
 LA English
 OS CASREACT 136:310141
 AB A novel β -amino acid having (thymine-1-yl)methyl functionality at the
 α -position I (R1 = tert-butoxycarbonyl), a useful component of
 α -substituted β -homocysteine peptide nucleic acids
 (β 2-PNAs), was synthesized as a protected form from
 2-(N3-benzoylthymine-1-yl)methyl-1,3-propanediol via enzymic
 desymmetrization catalyzed by lipase PS.
 IT 411235-17-1P 411235-18-2P 411235-19-3P
 411235-20-6P
 RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (chemo-enzymic synthesis of beta amino acids substituted by
 thymine-1-ylmethyl functional group via lipase-catalyzed resolution)
 RN 411235-17-1 CAPLUS
 CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 (2S)-2-[(acetyloxy)methyl]-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-
 1(2H)-pyrimidinyl)propyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 411235-18-2 CAPLUS
 CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 (2S)-2-[(acetyloxy)methyl]-4-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-
 1(2H)-pyrimidinyl)butyl ester, (α S)- (CA INDEX NAME)

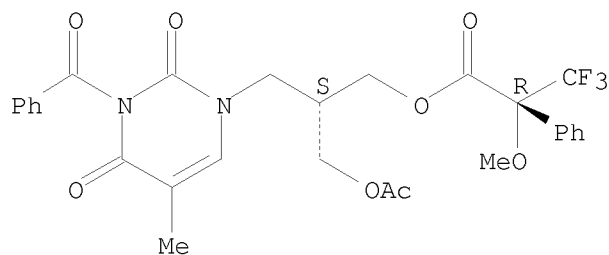
Absolute stereochemistry.



RN 411235-19-3 CAPLUS

CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(2S)-2-[(acetyloxy)methyl]-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-
1(2H)-pyrimidinyl)propyl ester, (α R)- (CA INDEX NAME)

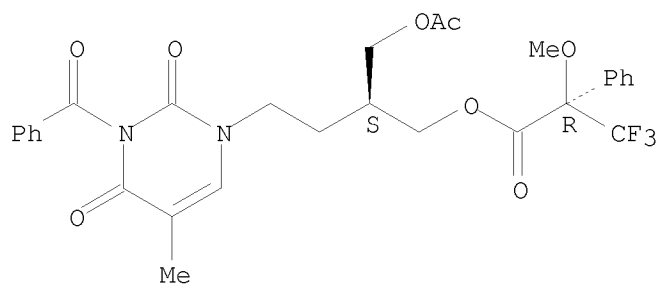
Absolute stereochemistry.



RN 411235-20-6 CAPLUS

CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(2S)-2-[(acetyloxy)methyl]-4-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-
1(2H)-pyrimidinyl)butyl ester, (α R)- (CA INDEX NAME)

Absolute stereochemistry.

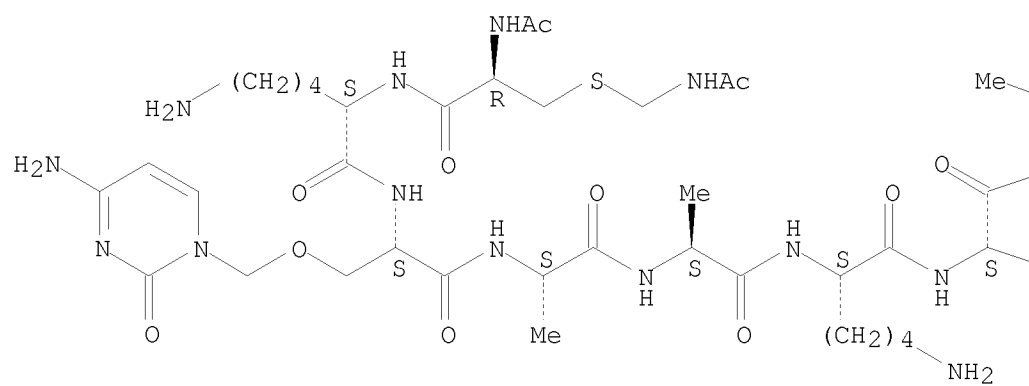


OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

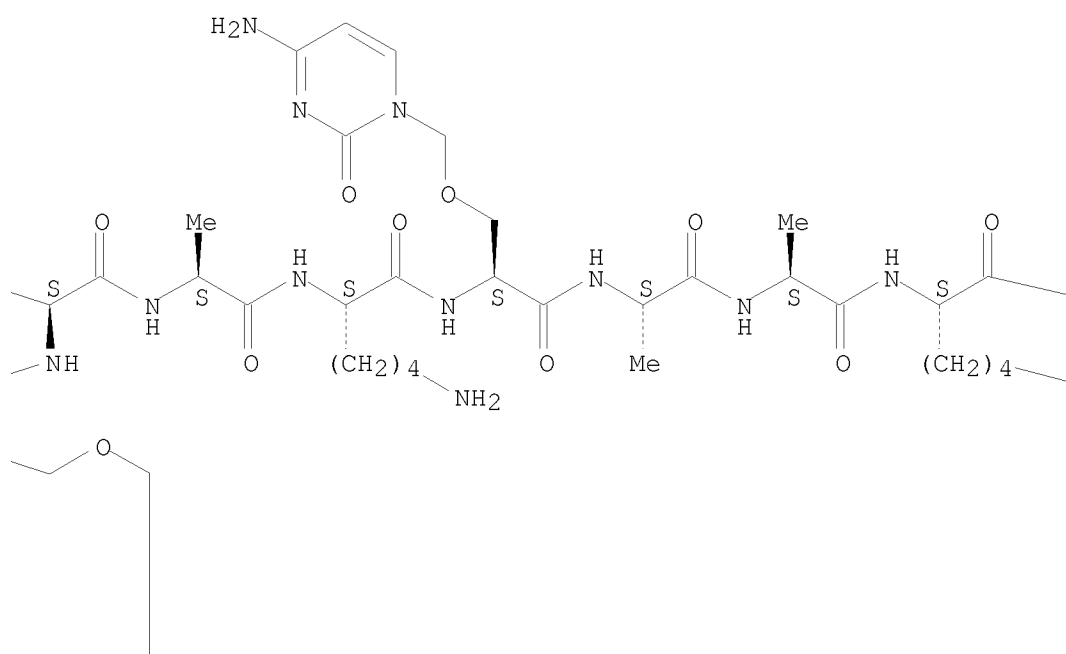
L11 ANSWER 49 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:628994 CAPLUS
 DN 135:354318
 TI In vitro stability of α -helical peptide nucleic acids (α PNAs)
 AU Garner, P.; Sherry, B.; Moilanen, S.; Huang, Y.
 CS Department of Chemistry, Case Western Reserve University, Cleveland, OH,
 44106-7078, USA
 SO Bioorganic & Medicinal Chemistry Letters (2001), 11(17), 2315-2317
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 AB α -Helical peptide nucleic acids (α PNAs) are synthetic mols.
 that merge the α -helix secondary structure of peptides with the
 codified Watson-Crick base pairing capability of nucleic acids. It is now
 demonstrated that α PNAs made up of either L- or D-amino acids are
 resistant to degradation by the proteases present in human serum. The
 increased stability of α PNAs towards proteases may be attributable
 to the presence of unnatural nucleoside residues
 [-NHCH(CH₂OCH₂B)CO-, where B = thymine or cytosine] since the replacement
 of these amino acids by serine yields a control peptide that does break
 down in human serum. The stability of α PNAs towards proteases makes
 them attractive candidates for further development as antisense agents.
 IT 267241-35-0 373391-76-5
 RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
 (Properties); BIOL (Biological study); PROC (Process)
 (increased stability of α -helical PNAs toward serum proteases may
 be due to presence of unnatural amino acid residues containing T or C)
 RN 267241-35-0 CAPLUS
 CN L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-
 amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-
 [(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-
 alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-
 seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-
 pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

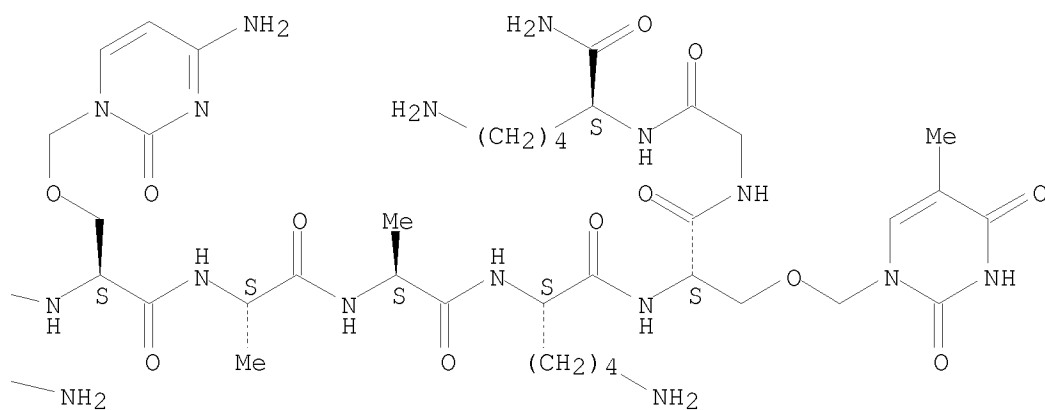
PAGE 1-A



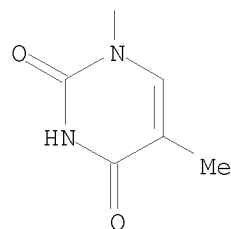
PAGE 1-B



PAGE 1-C



PAGE 2-B

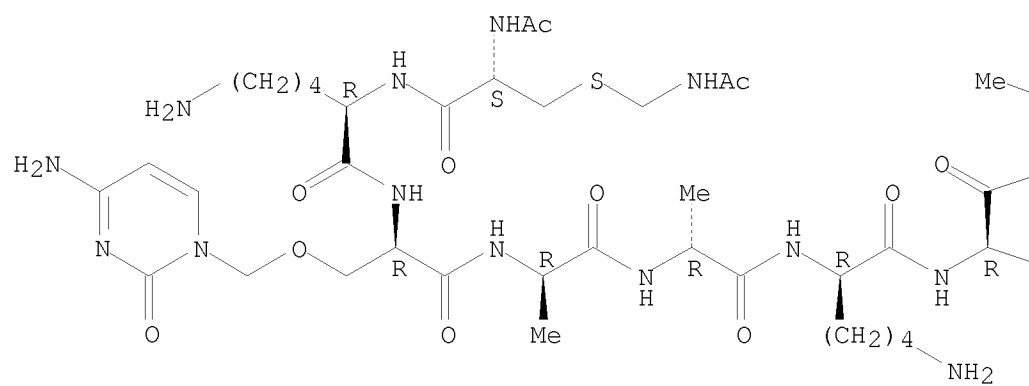


RN 373391-76-5 CAPLUS

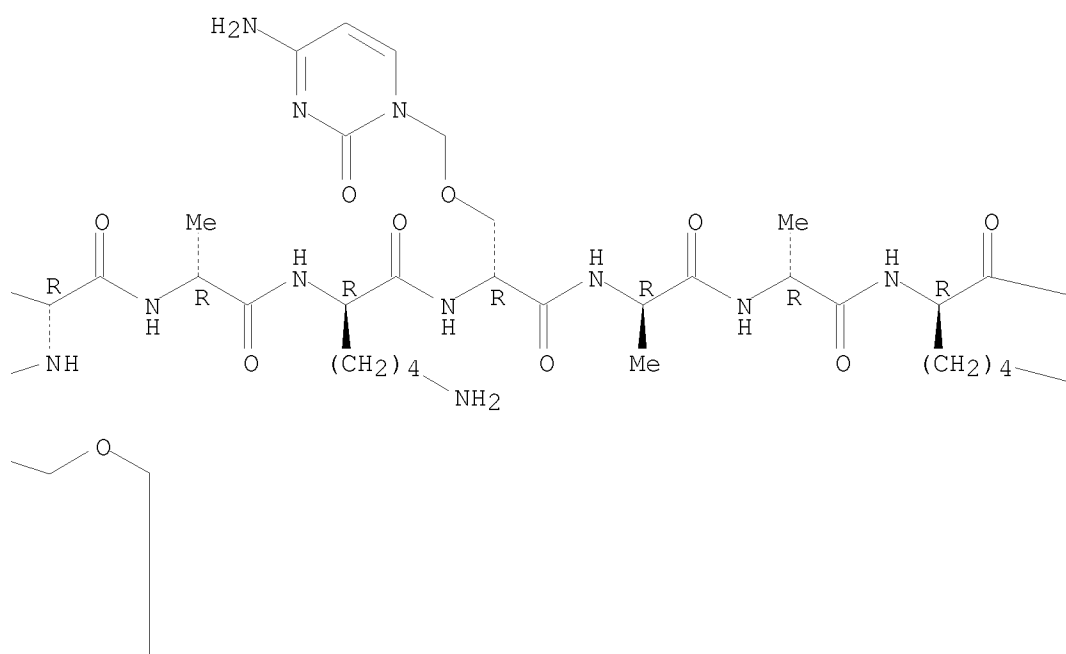
CN D-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-D-cysteinyl-D-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-D-seryl-D-alanyl-D-alanyl-D-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-D-seryl-D-alanyl-D-alanyl-D-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-D-seryl-D-alanyl-D-alanyl-D-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-D-serylglycyl- (9CI) (CA INDEX NAME)

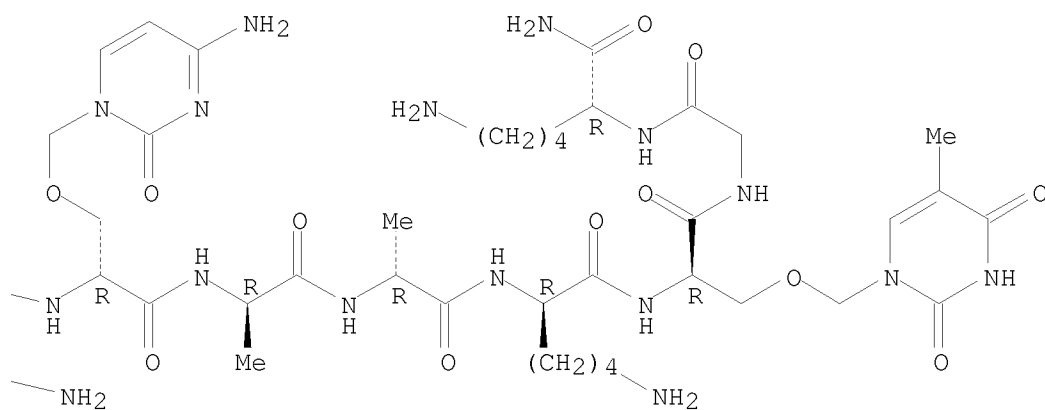
Absolute stereochemistry.

PAGE 1-A

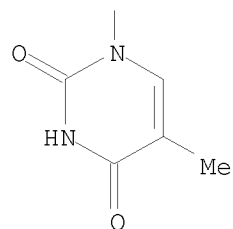


PAGE 1-B





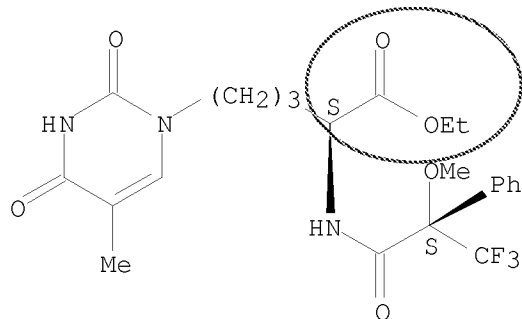
PAGE 2-B



```
OSC.G      8      THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
RE.CNT    13      THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

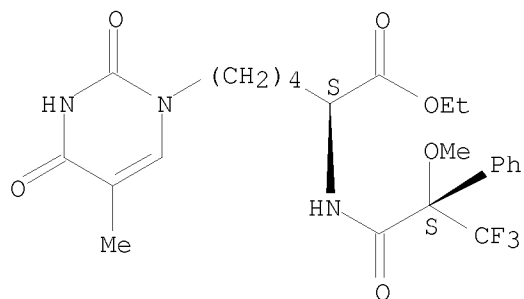

L11 ANSWER 50 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:537236 CAPLUS
 DN 135:318349
 TI Synthesis by conjugate radical addition of new heterocyclic amino acids with nucleobase side chains
 AU Jones, R. C. F.; Berthelot, D. J. C.; Iley, J. N.
 CS Department of Chemistry, The Open University, Milton Keynes, MK7 6AA, UK
 SO Tetrahedron (2001), 57(30), 6539-6555
 CODEN: TETRAB; ISSN: 0040-4020
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 135:318349
 AB N-(2-iodoethyl) and N-(3-iodopropyl)pyrimidines and purines undergo stereoselective conjugate radical addition with an optically active oxazolidinone acceptor to give syn-adducts that can be converted into amino acids carrying pyrimidine and purine (nucleobase) side chains.
 IT 367493-22-9P 367493-23-0P 367493-24-1P
 367493-25-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis by conjugate radical addition of new heterocyclic amino acids with nucleobase side chains)
 RN 367493-22-9 CAPLUS
 CN 1(2H)-Pyrimidinepentanoic acid, 3,4-dihydro-5-methyl-2,4-dioxo- α -[[[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl]amino]-, ethyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 367493-23-0 CAPLUS
 CN 1(2H)-Pyrimidinehexanoic acid, 3,4-dihydro-5-methyl-2,4-dioxo- α -[[[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl]amino]-, ethyl ester, (α S)- (CA INDEX NAME)

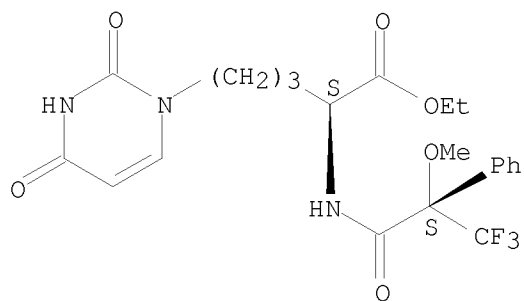
Absolute stereochemistry.



RN 367493-24-1 CAPLUS

CN 1(2H)-Pyrimidinepentanoic acid, 3,4-dihydro-2,4-dioxo- α -[[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl]amino]-, ethyl ester, (α S)- (CA INDEX NAME)

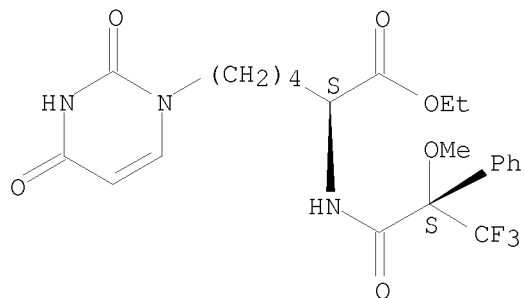
Absolute stereochemistry.



RN 367493-25-2 CAPLUS

CN 1(2H)-Pyrimidinehexanoic acid, 3,4-dihydro-2,4-dioxo- α -[[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropyl]amino]-, ethyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
 RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/585,283

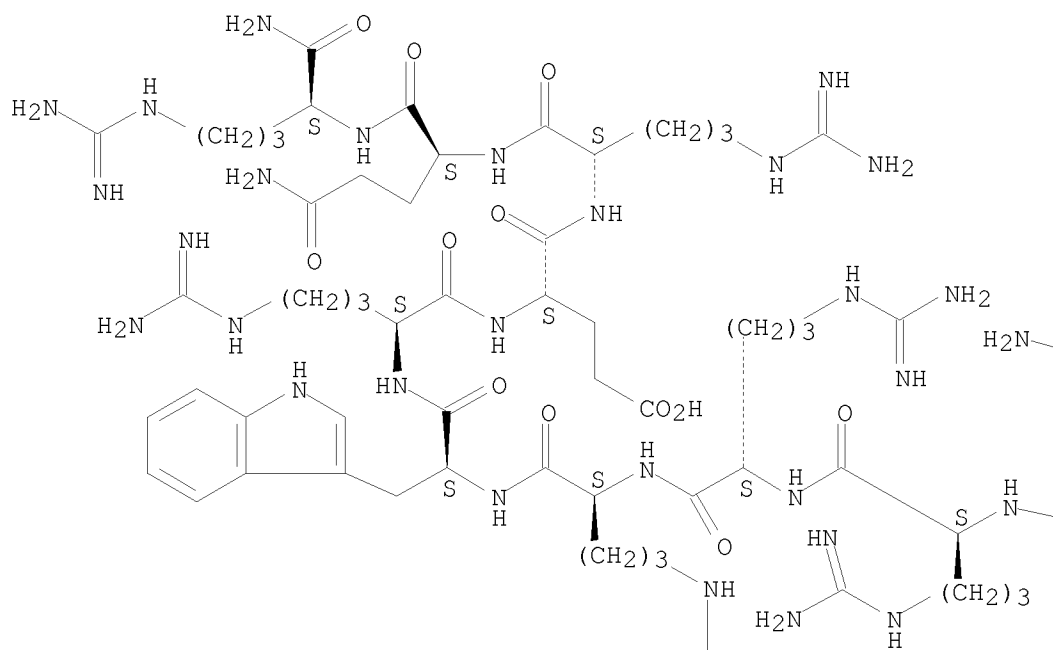
10/585,283

=> d 111 51-121 bib,ab,hitstr

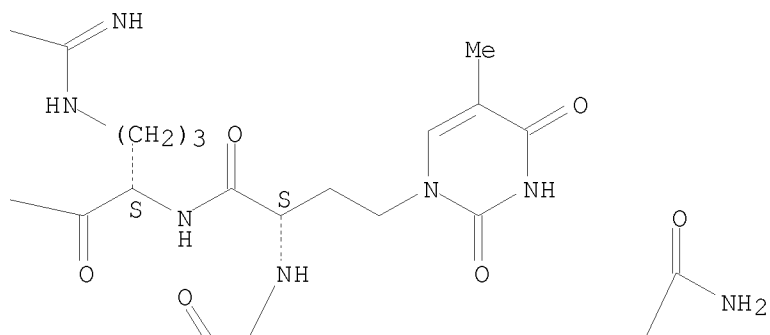
L11 ANSWER 51 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:314443 CAPLUS
 DN 135:122727
 TI Construction of peptides with nucleobase amino acids. Design and synthesis of the nucleobase-conjugated peptides derived from HIV-1 rev and their binding properties to HIV-1 RRE RNA
 AU Takahashi, T.; Hamasaki, K.; Ueno, A.; Mihara, H.
 CS Graduate School of Bioscience and Biotechnology, Department of Bioengineering, Tokyo Institute of Technology, Nagatsuta, Midori-Ku, Yokohama, 226-8501, Japan
 SO Bioorganic & Medicinal Chemistry (2001), 9(4), 991-1000
 CODEN: BMECEP; ISSN: 0968-0896
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 135:122727
 AB In order to develop a novel mol. that recognizes a specific structure of RNA, we have attempted to design peptides having L- α -amino acids with a nucleobase at the side chain (nucleobase amino acid (NBA)), expecting that the function of a nucleobase which can specifically recognize a base in RNA is regulated in a peptide conformation. In this study, to demonstrate the applicability of the NBA units in the peptide to RNA recognition, the authors designed and synthesized a variety of NBA-conjugated peptides, derived from HIV-1 Rev. CD study revealed that the conjugation of the Rev peptide with an NBA unit did not disturb the peptide conformation. RNA-binding affinities of the designed peptides with RRE IIB RNA were dependent on the structure of the nucleobase moieties in the peptides. The peptide having the cytosine NBA at the position of the Asn40 site in the Rev showed a higher binding ability for RRE IIB RNA, despite the diminishing the Asn40 function. Furthermore, the peptide having the guanine NBA at the position of the Arg44 site, which is the most important residue for the RNA binding in the Rev, bound to RRE IIB RNA in an ability similar to Rev34-50 with native sequence. These results demonstrate that an appropriate NBA unit in the peptide plays an important role in the RNA binding with a specific contact such as hydrogen bonding, and the interaction between the nucleobase in the peptide and the base in the RNA can enhance the RNA-binding affinity and specificity.
 IT 350810-90-1 350810-99-0 350811-03-9
 350811-17-5 350811-21-1 350811-31-3
 350811-37-9 350811-70-0
 RL: PRP (Properties)
 (design and synthesis of the nucleobase-conjugated peptides derived from HIV-1 rev and their binding properties to HIV-1 RRE RNA)
 RN 350810-90-1 CAPLUS
 CN RNA, (G-G-C-U-G-G-U-C-U-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutamyl-L-alanyl-L-arginyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutamyl-L-argininamide (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 350486-52-1
 CMF C106 H183 N53 O27

Absolute stereochemistry.

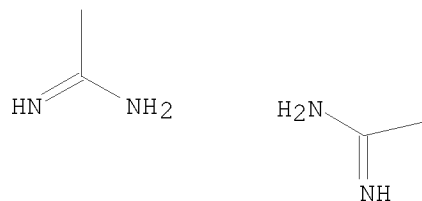
PAGE 1-A



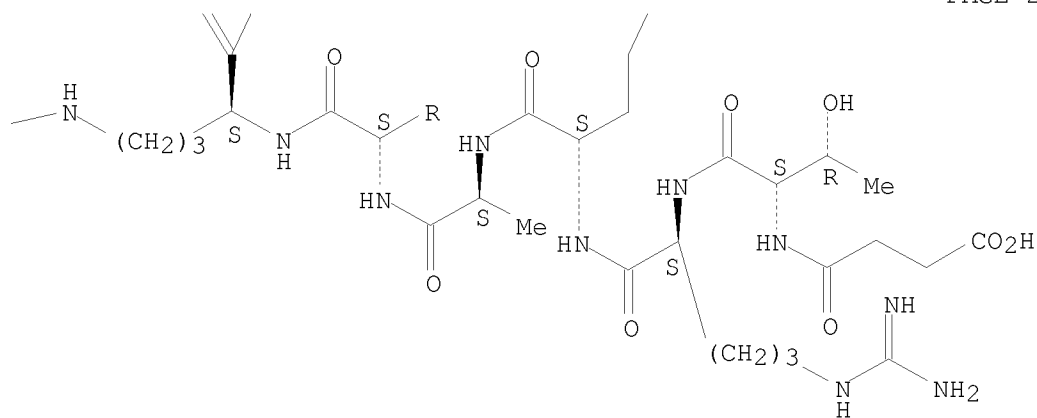
PAGE 1-B



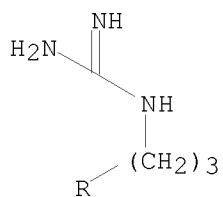
PAGE 2-A



PAGE 2-B



PAGE 3-A



CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

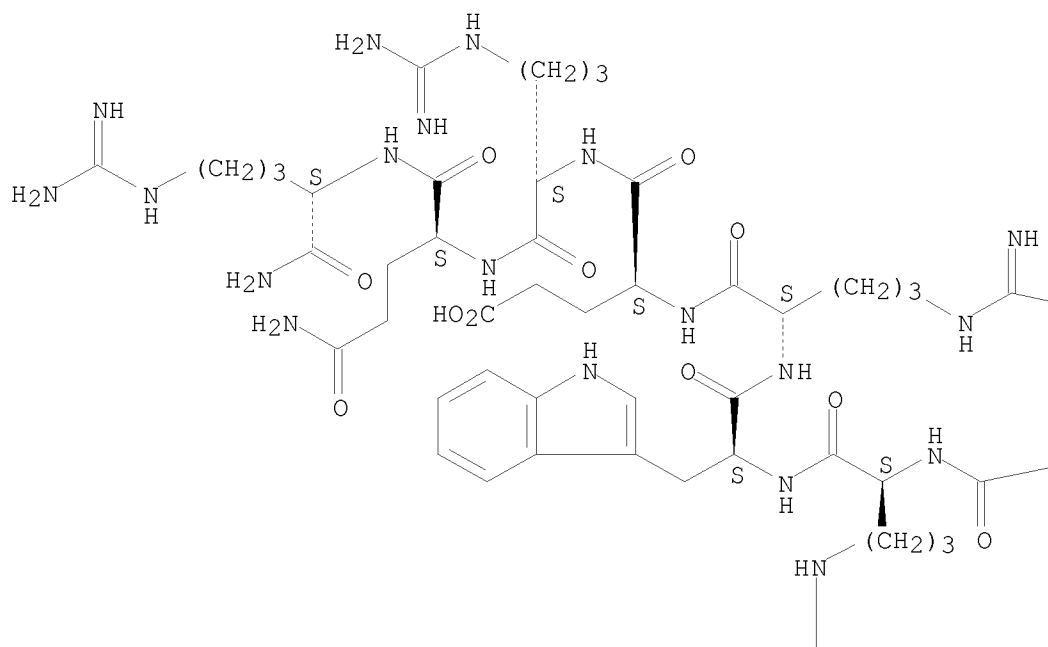
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350810-99-0 CAPLUS

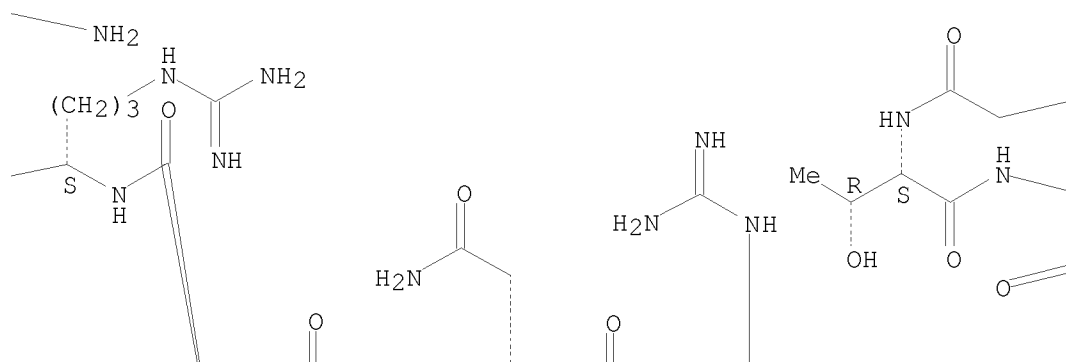
CN RNA, (G-G-C-U-G-G-U-C-U-G-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-(α S)- α -amino
 -3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-
 arginyl-L-arginyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-

CRN 350486-59-8
CMF C105 H181 N53 O27

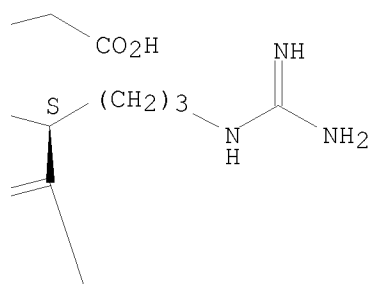
PAGE 1-A



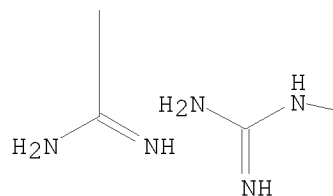
PAGE 1-B



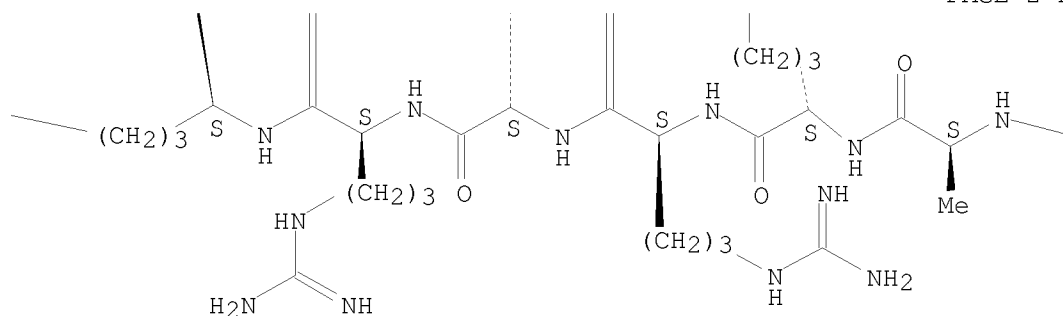
PAGE 1-C



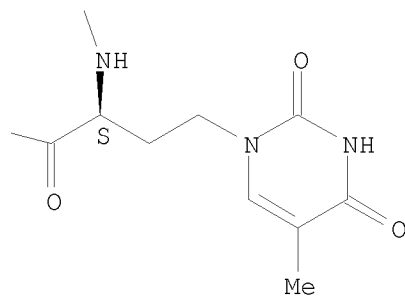
PAGE 2-A



PAGE 2-B



PAGE 2-C



CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-03-9 CAPLUS

CN RNA, (G-G-C-U-G-G-U-C-U-G-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-(α S)- α , 4-
 diamino-2-oxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-arginyl-L-arginyl-
 (α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinebutanoyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-
 arginyl-L- α -glutamyl-L-arginyl-L-glutaminyl-L-argininamide (1:1)

(9CI) (CA INDEX NAME)

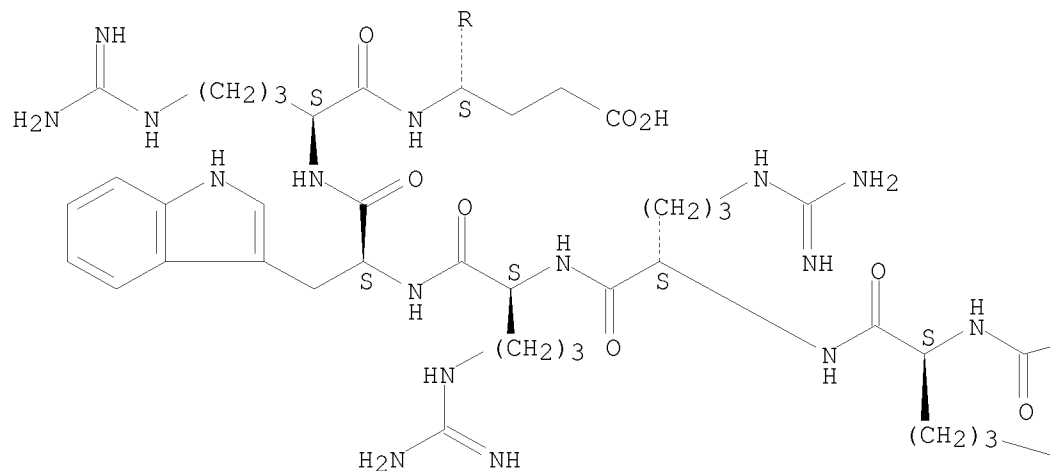
CM 1

CRN 350486-63-4

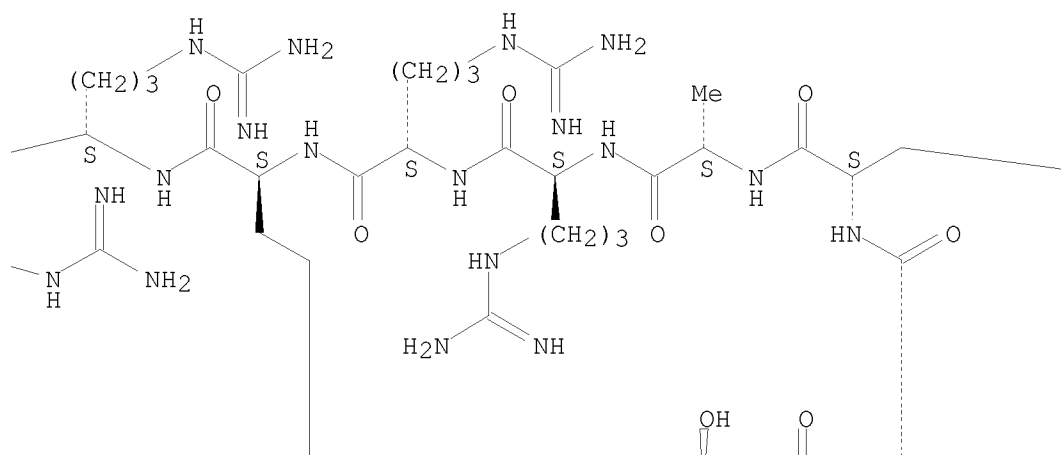
CMF C109 H185 N55 O27

Absolute stereochemistry.

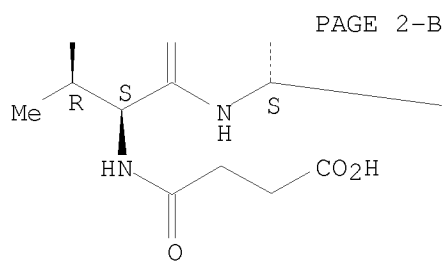
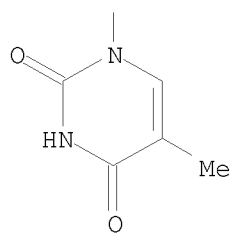
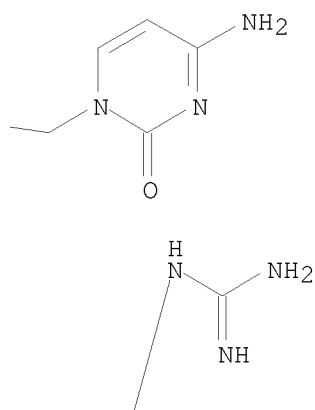
PAGE 1-A



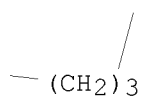
PAGE 1-B

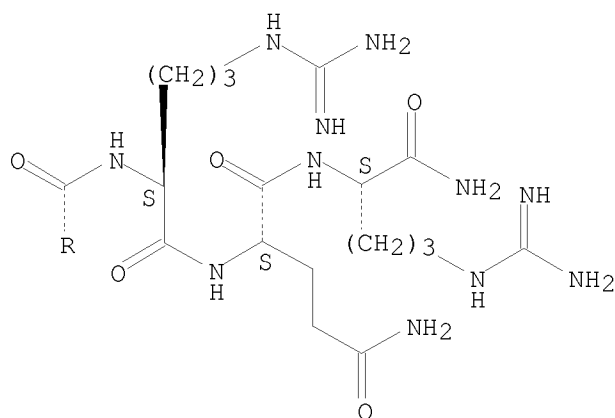


PAGE 1-C



PAGE 2-C





CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-17-5 CAPLUS

CN RNA, (G-G-C-U-G-G-U-C-U-G-G-A-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-arginyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutamyl-L-argininamide (1:1)
 (9CI) (CA INDEX NAME)

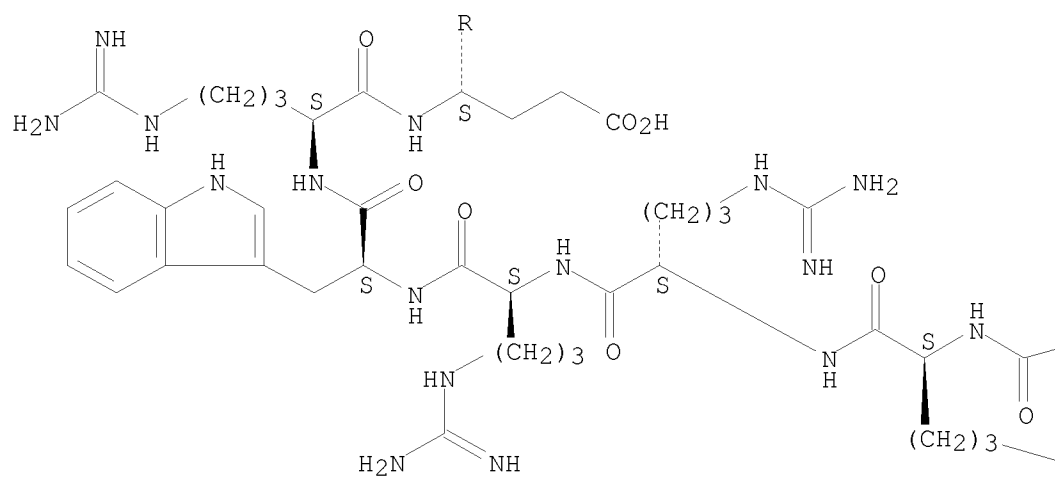
CM 1

CRN 350486-63-4

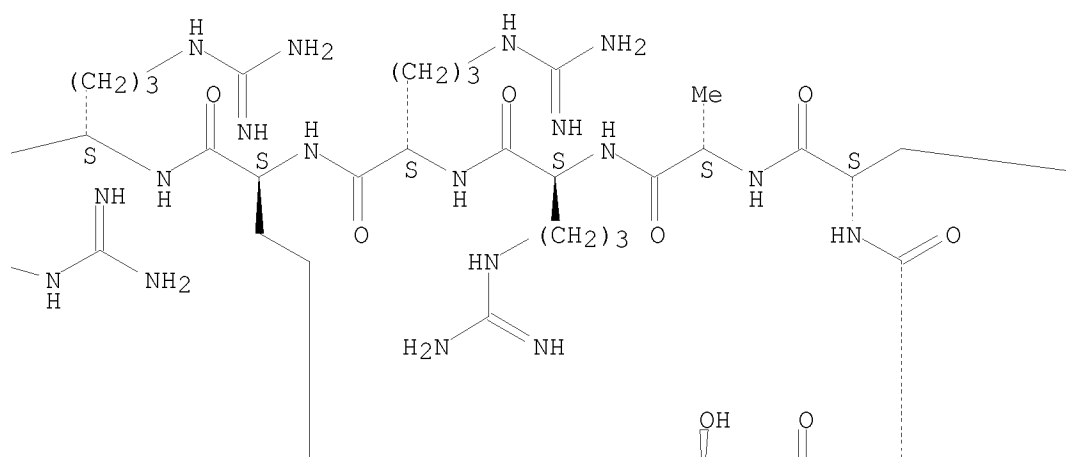
CMF C109 H185 N55 O27

Absolute stereochemistry.

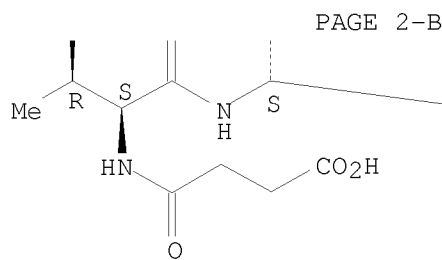
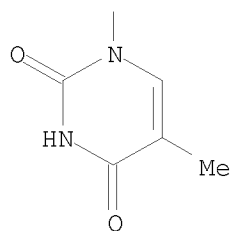
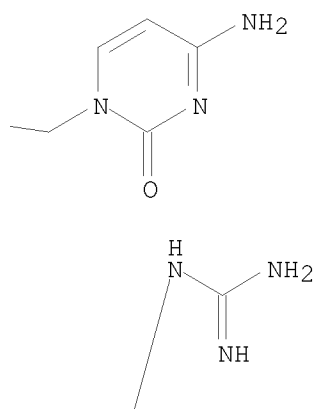
PAGE 1-A



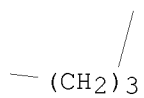
PAGE 1-B

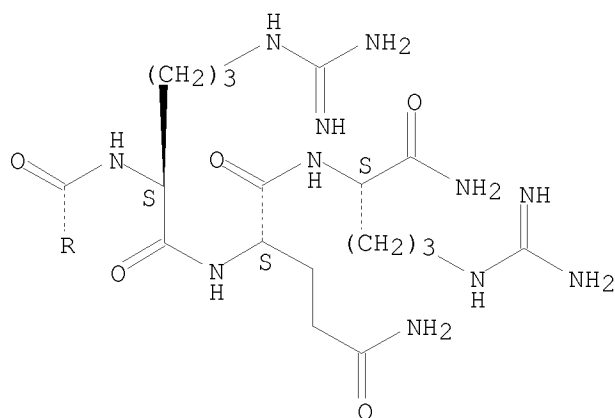


PAGE 1-C



PAGE 2-C





CM 2

CRN 271756-46-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-21-1 CAPLUS

CN RNA, (G-G-C-U-G-G-U-C-U-G-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-(α S)- α -amino-3,4-dihydro-
 5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-glutaminyl-L-alanyl-L-
 arginyl-L-arginyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-L-
 tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminyl-L-
 argininamide (1:1) (9CI) (CA INDEX NAME)

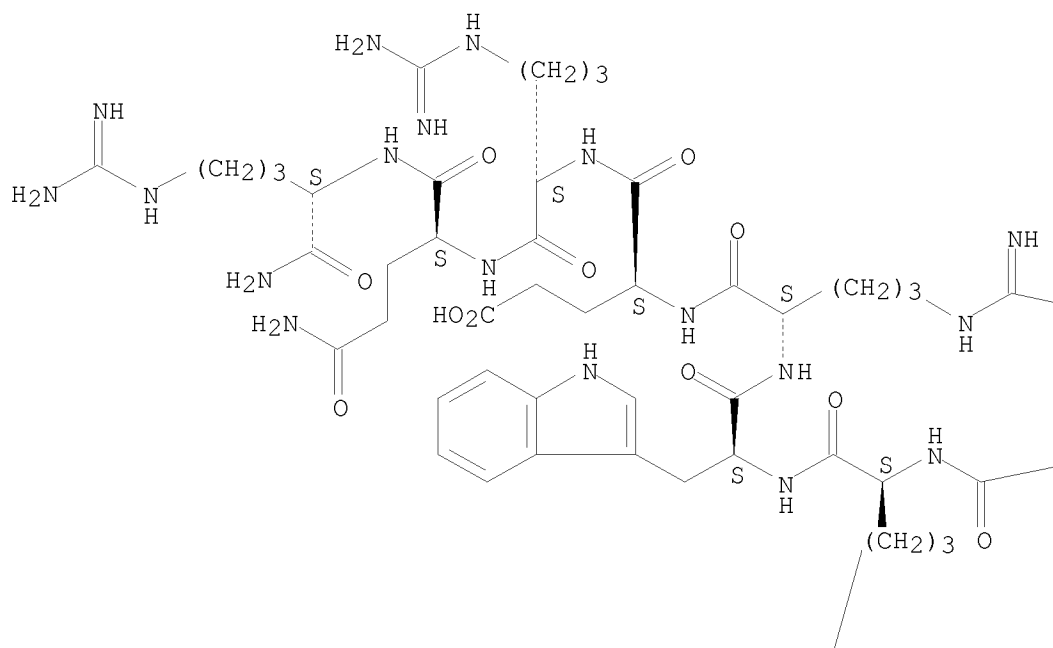
CM 1

CRN 350486-71-4

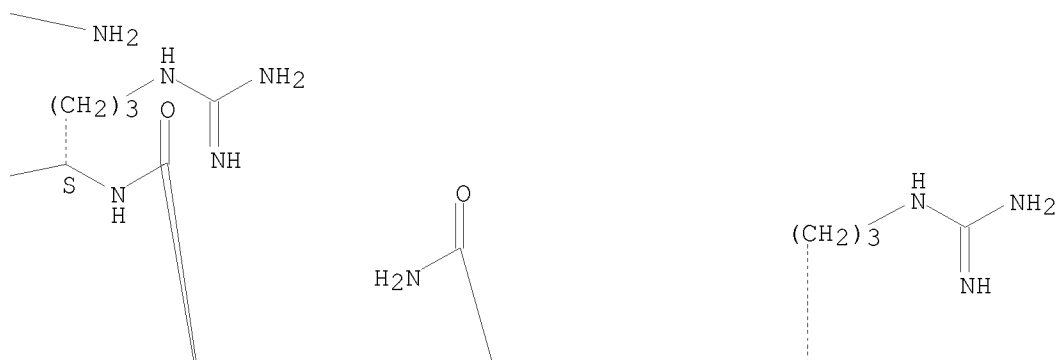
CMF C104 H177 N51 O28

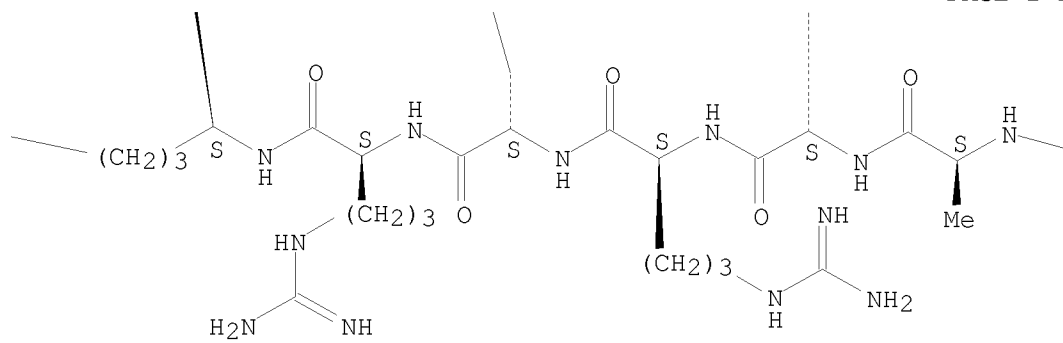
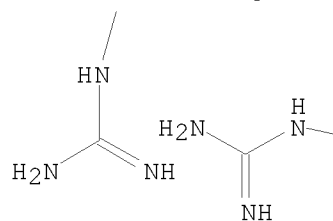
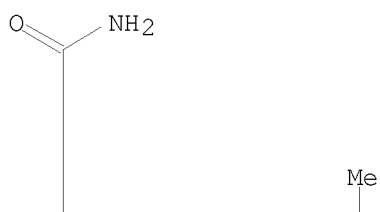
Absolute stereochemistry.

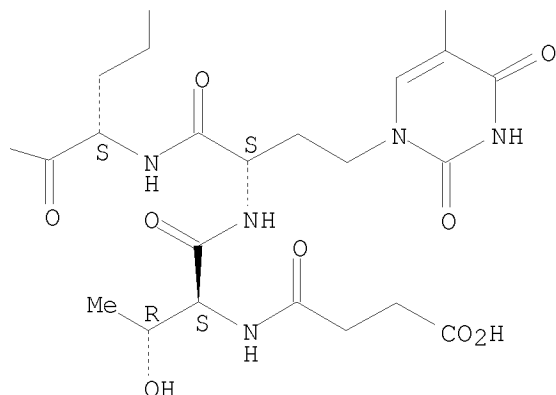
PAGE 1-A



PAGE 1-B







CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-31-3 CAPLUS

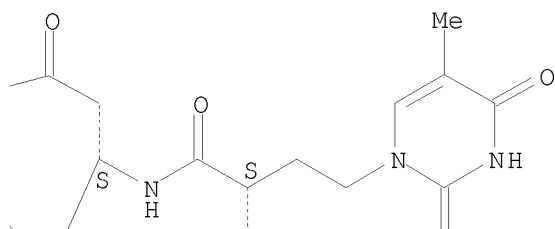
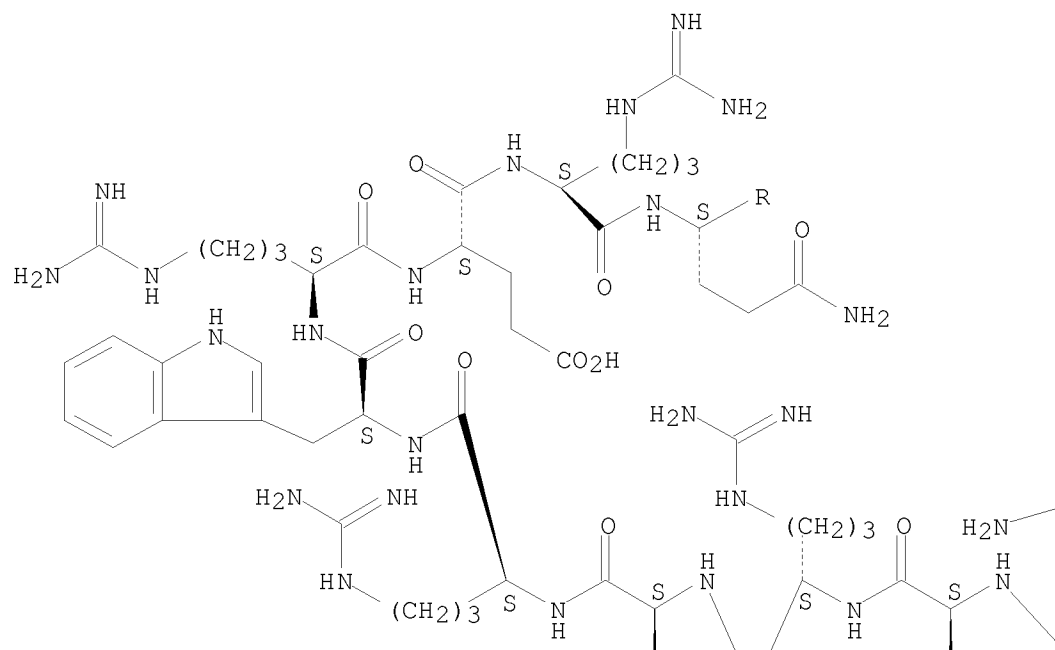
CN RNA, (G-G-C-U-G-G-U-C-U-G-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutaminyl-L-alanyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminyl-L-argininamide (1:1) (9CI) (CA INDEX NAME)

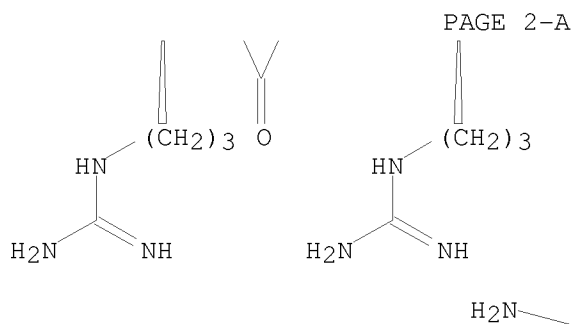
CM 1

CRN 350486-81-6

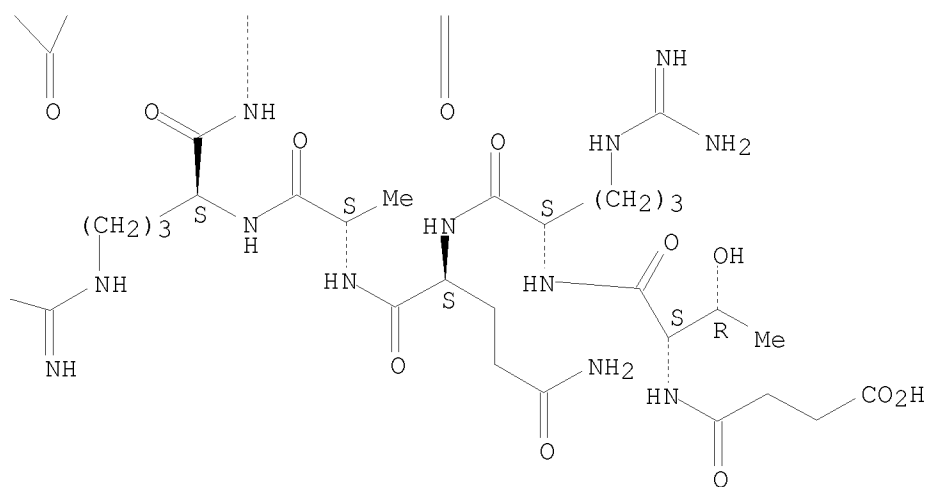
CMF C104 H177 N51 O28

Absolute stereochemistry.

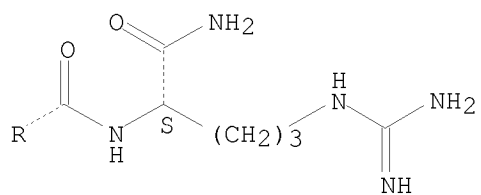




PAGE 2-B



PAGE 3-A



CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-37-9 CAPLUS

CN RNA, (G-G-C-U-G-G-U-C-U-G-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-

G-U-A-C-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutaminyl-L-alanyl-L-
 arginyl-L-arginyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-(α S)-
 α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-
 tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminyl-L-
 argininamide (1:1) (9CI) (CA INDEX NAME)

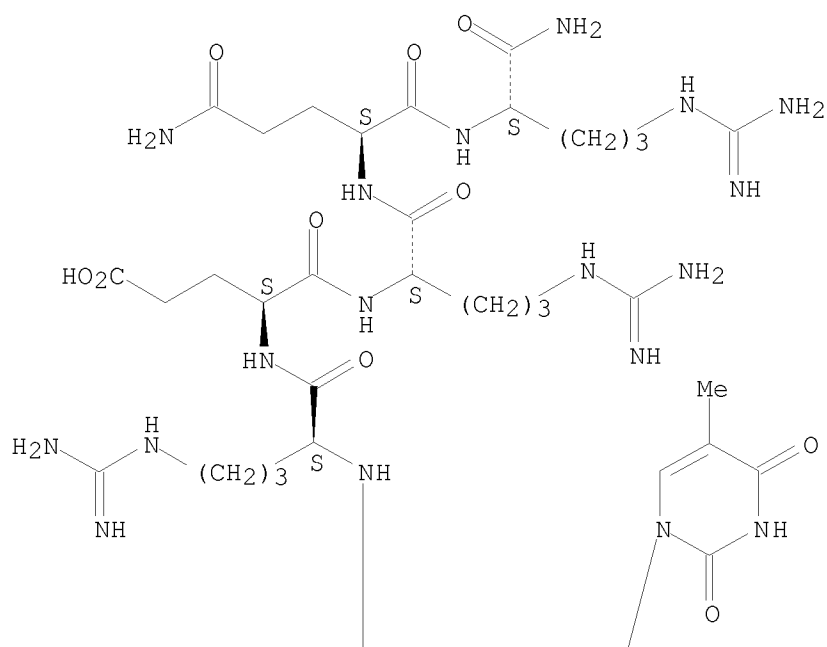
CM 1

CRN 350486-91-8

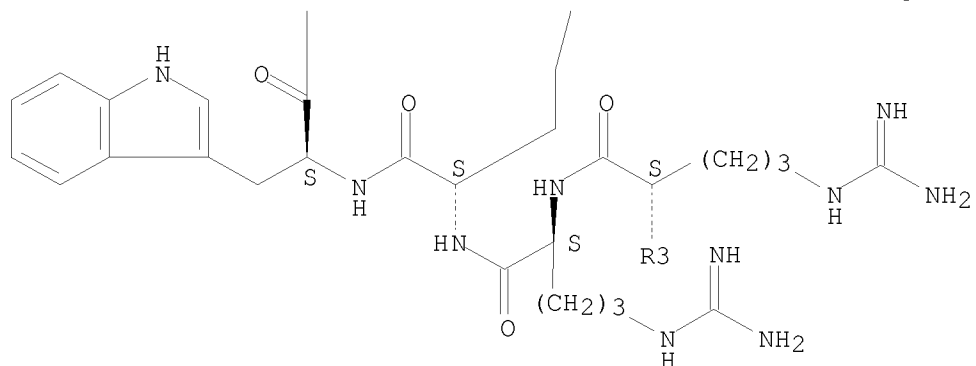
CMF C104 H177 N51 O28

Absolute stereochemistry.

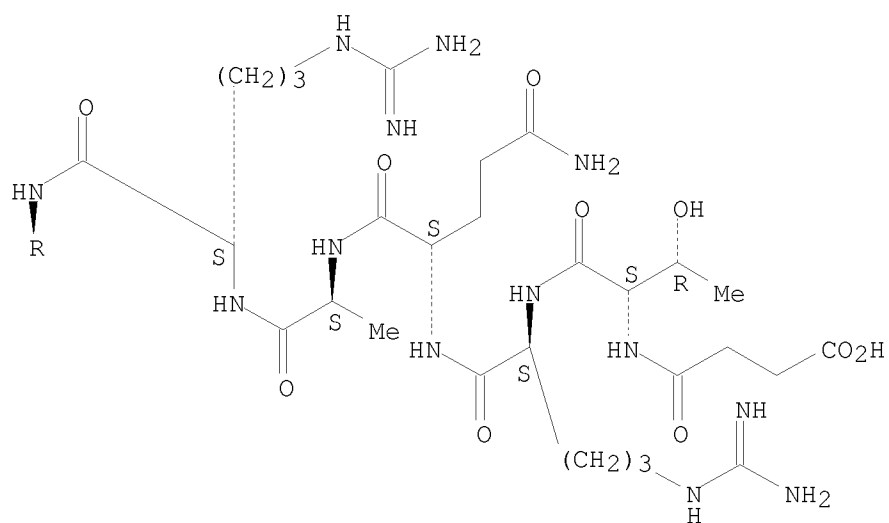
PAGE 1-A



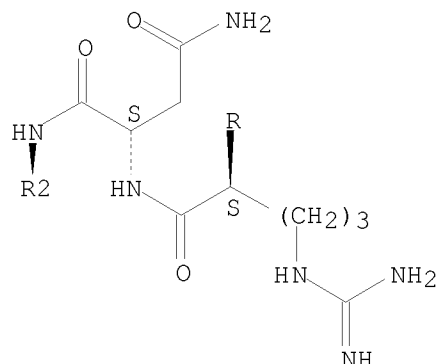
PAGE 2-A



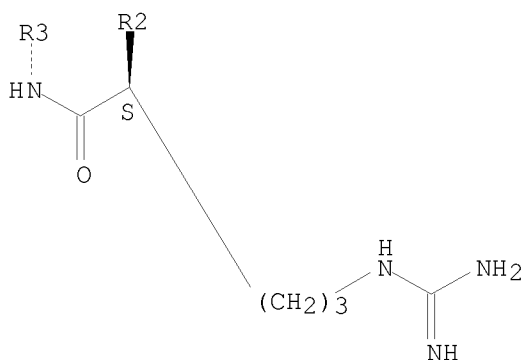
PAGE 3-A



PAGE 4-A



PAGE 5-A



CM 2

CRN 266988-79-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 350811-70-0 CAPLUS

CN RNA, (G-G-C-U-G-G-U-C-U-C-G-G-C-G-C-A-G-C-G-U-C-A-A-U-G-A-C-G-C-U-G-A-C-G-G-U-A-G-A-G-G-C-C-A-G-C-C), compd. with
 N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutamyl-L-alanyl-L-arginyl-L-arginyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-(αS)-α-amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-tryptophyl-L-arginyl-L-α-glutamyl-L-arginyl-L-glutamyl-L-argininamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 350729-82-7

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

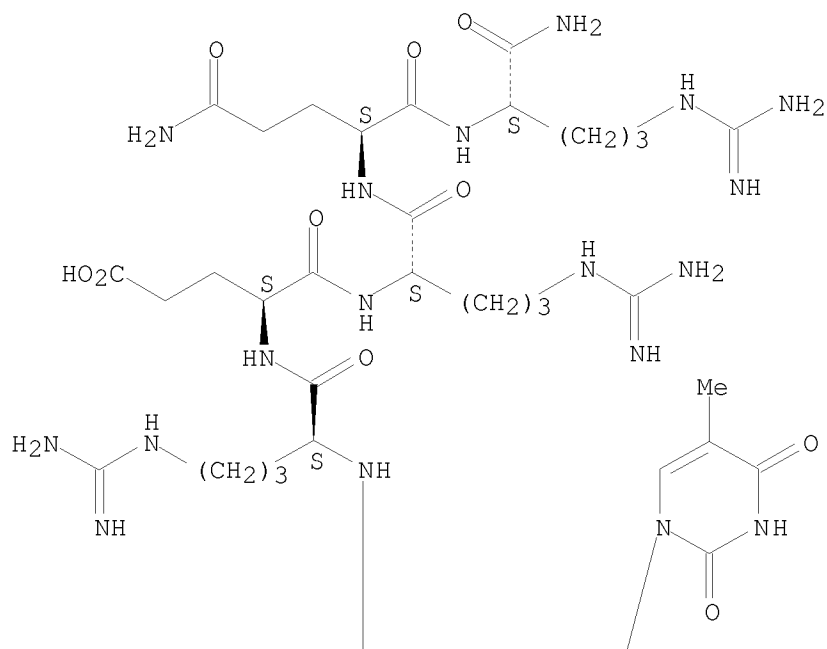
CM 2

CRN 350486-91-8

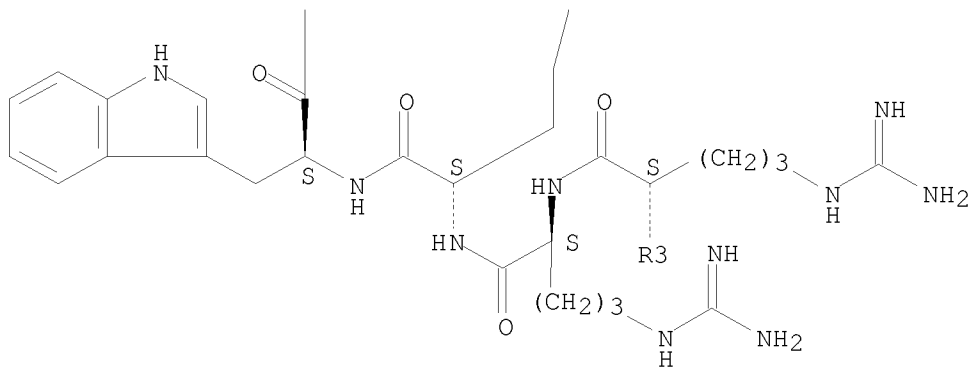
CMF C104 H177 N51 O28

Absolute stereochemistry.

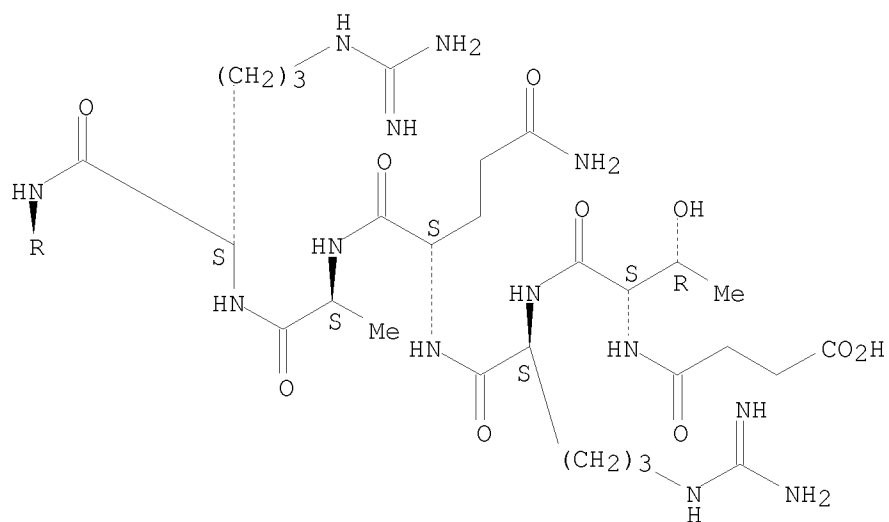
PAGE 1-A



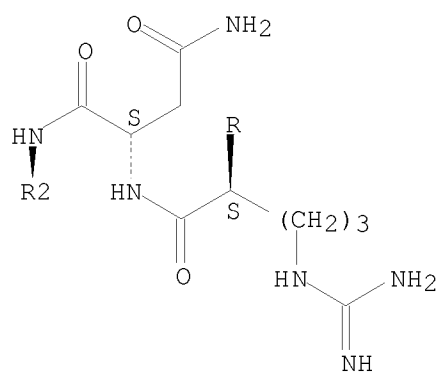
PAGE 2-A

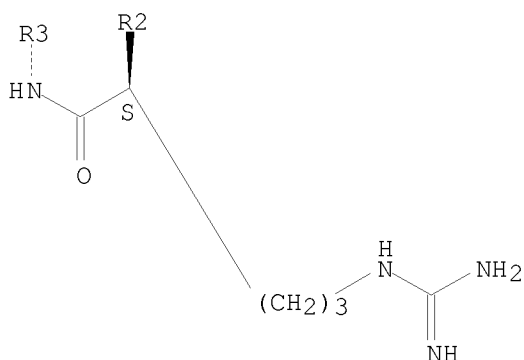


PAGE 3-A



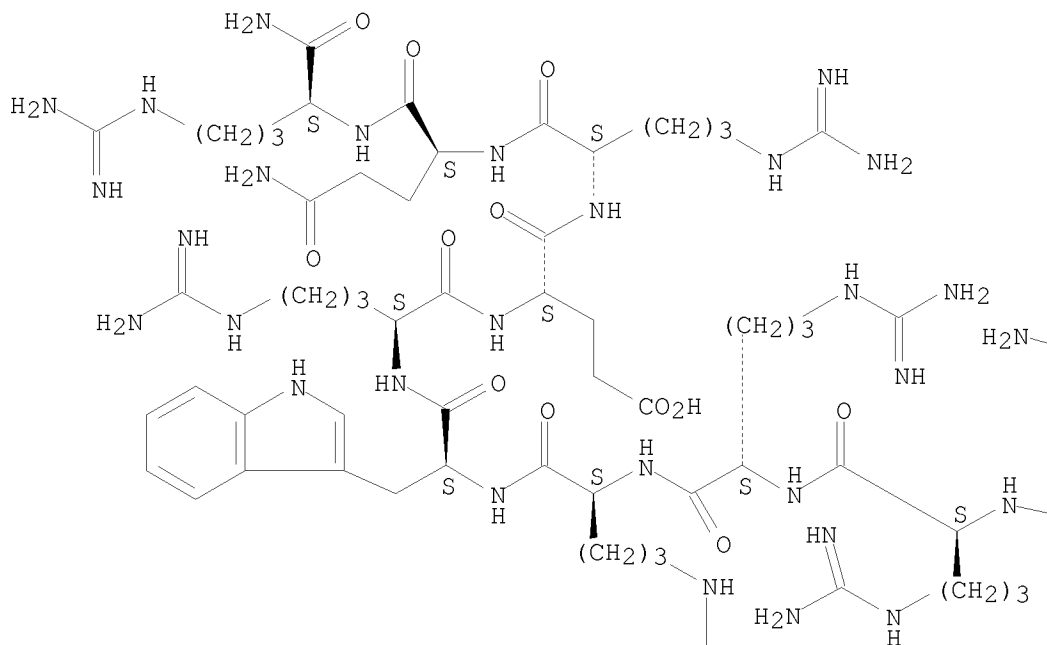
PAGE 4-A



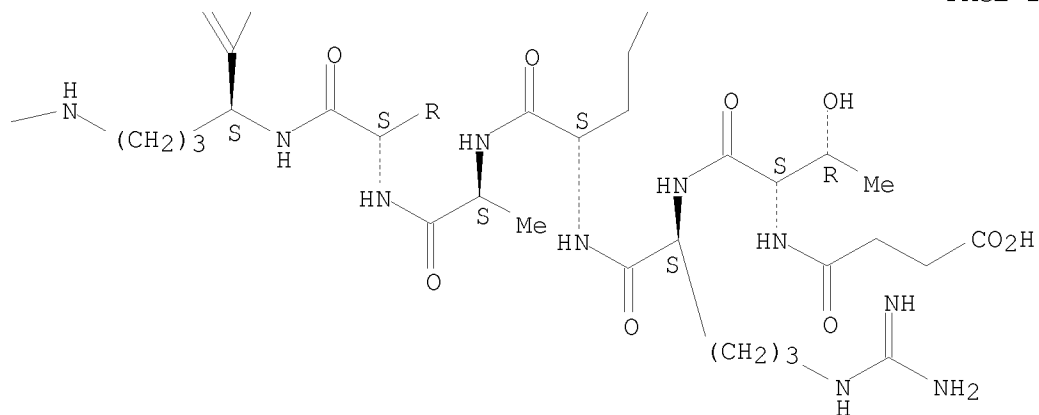


IT 350486-52-1P 350486-59-8P 350486-63-4P
 350486-71-4P 350486-81-6P 350486-91-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (design and synthesis of the nucleobase-conjugated peptides derived
 from HIV-1 rev and their binding properties to HIV-1 RRE RNA)
 RN 350486-52-1 CAPLUS
 CN L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-
 glutaminyl-L-alanyl-L-arginyl-L-arginyl-(α S)- α -amino-3,4-
 dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-arginyl-L-arginyl-L-
 arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-
 glutaminyl- (9CI) (CA INDEX NAME)

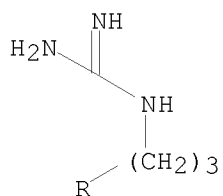
Absolute stereochemistry.



PAGE 2-B



PAGE 3-A

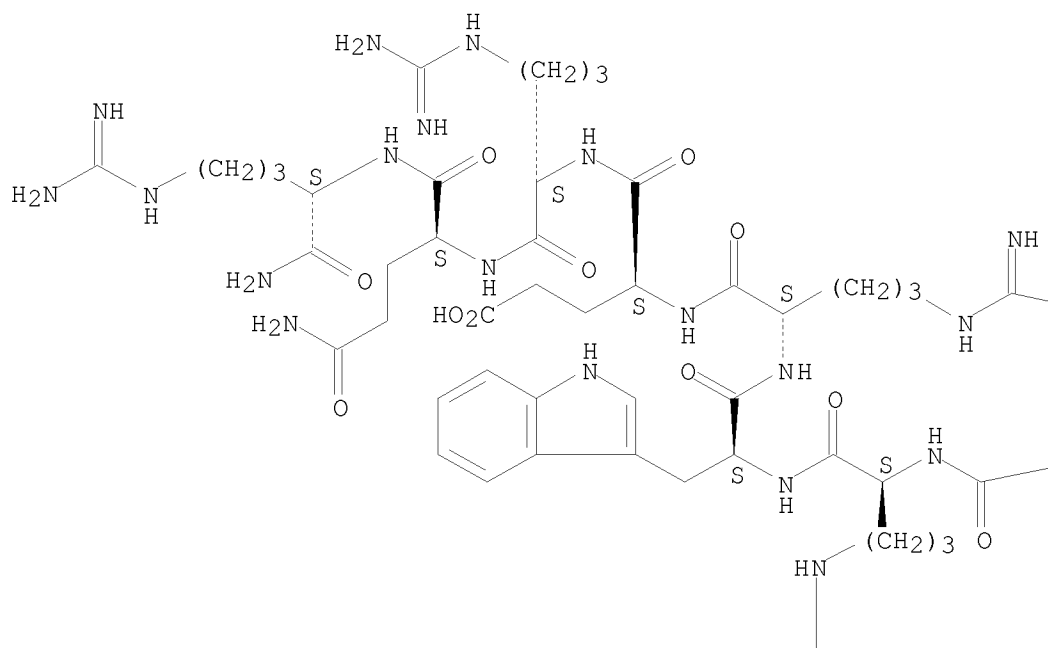


RN 350486-59-8 CAPLUS

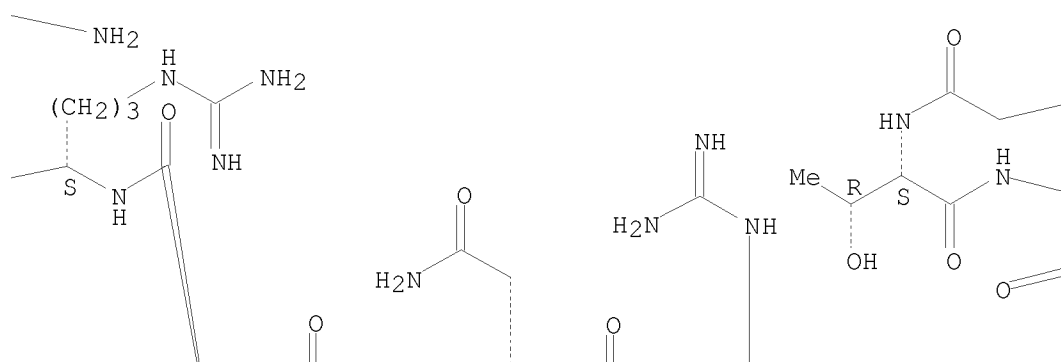
CN L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-(α S)-
 α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-
 alanyl-L-arginyl-L-arginyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-L-
 arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminyl-
 (9CI) (CA INDEX NAME)

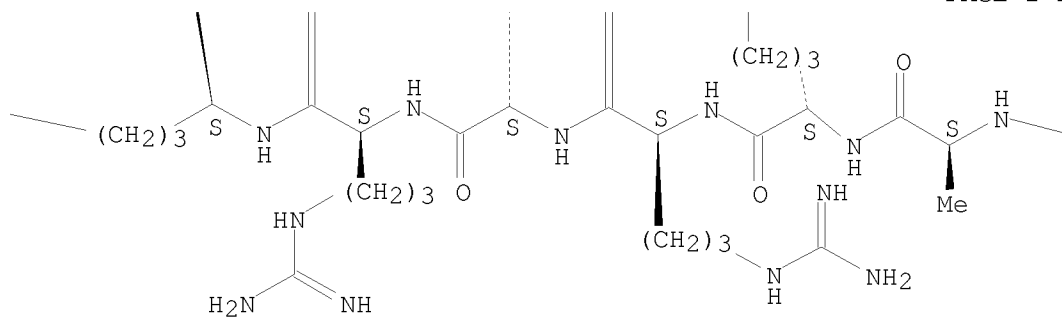
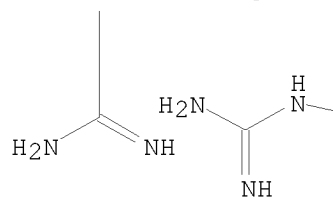
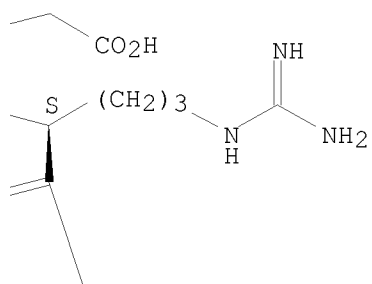
Absolute stereochemistry.

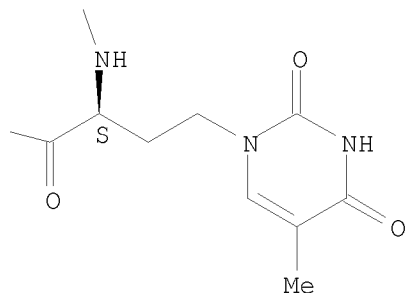
PAGE 1-A



PAGE 1-B



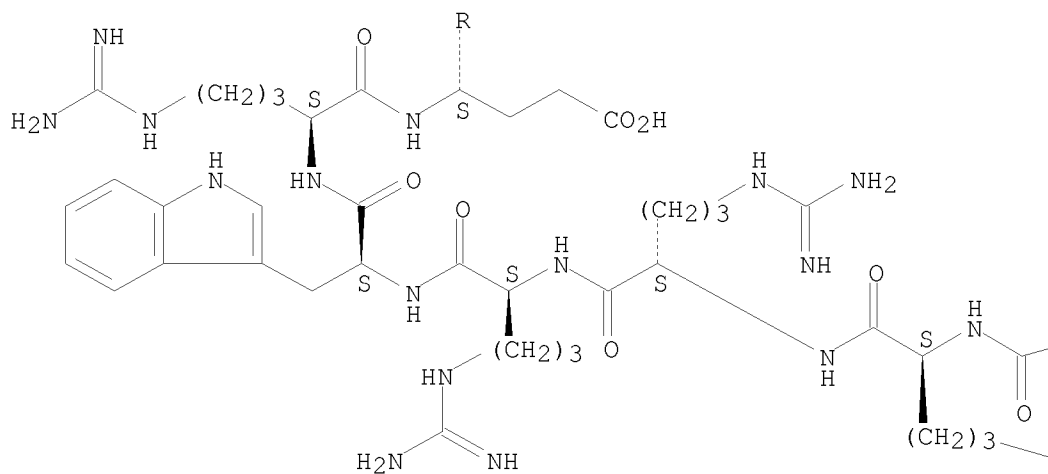


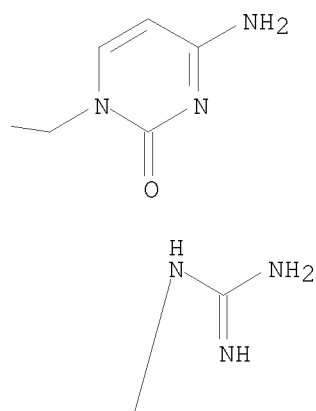
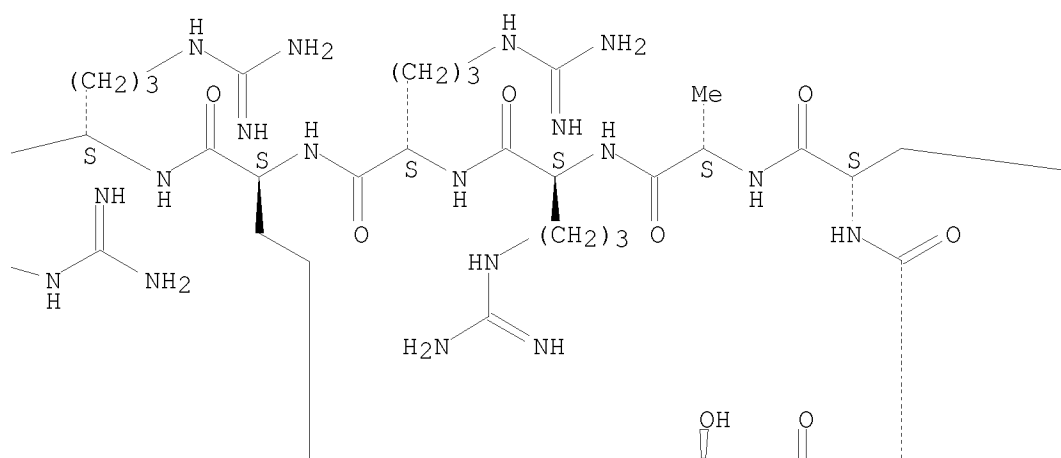


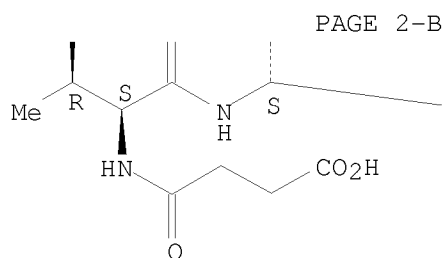
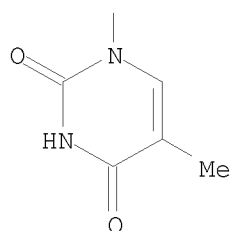
RN 350486-63-4 CAPLUS

CN L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoyl-L-alanyl-L-arginyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

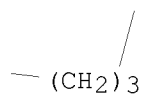




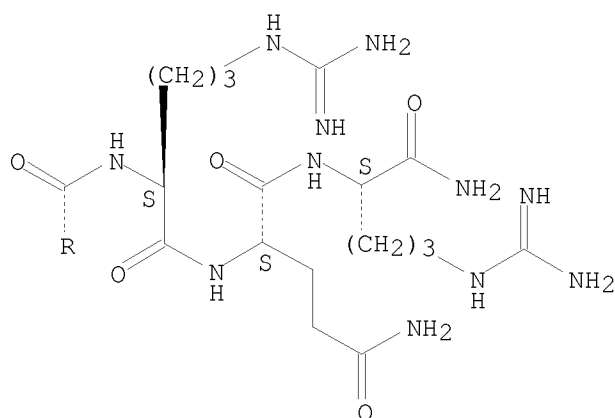


PAGE 2-B

PAGE 2-C

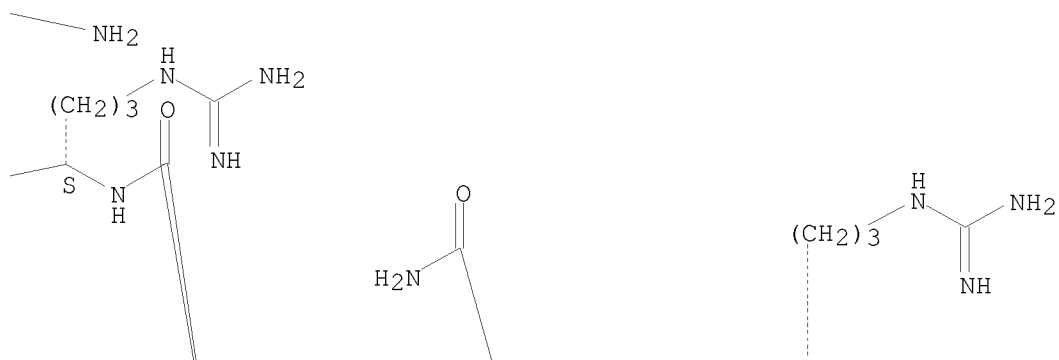
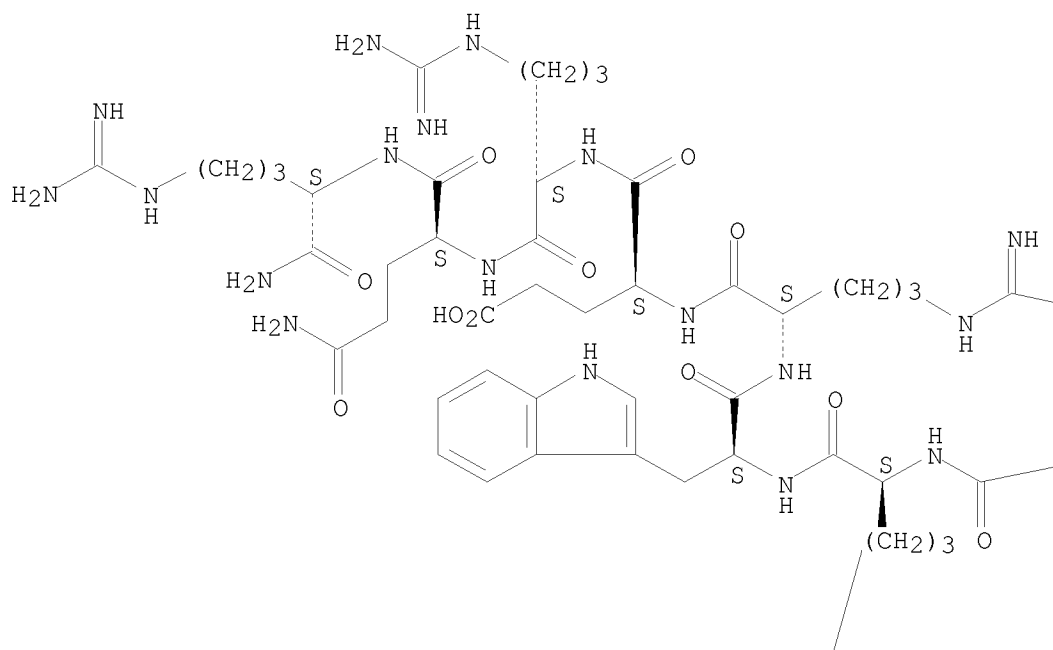


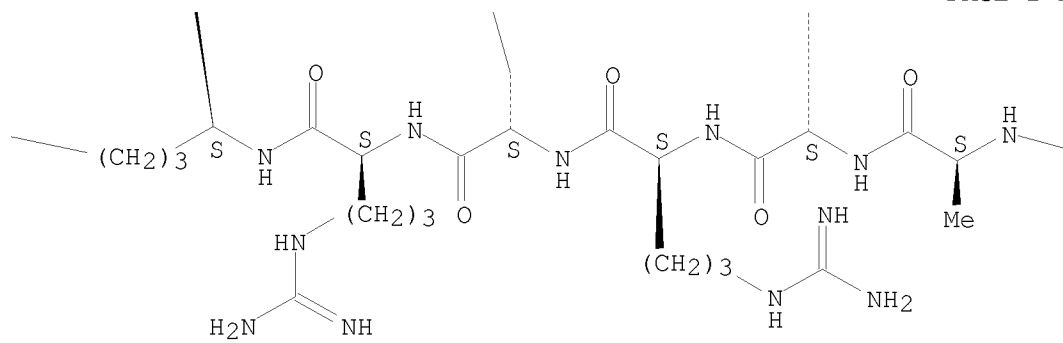
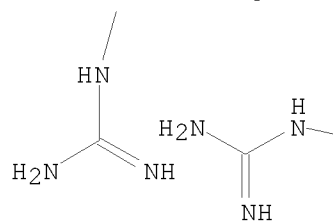
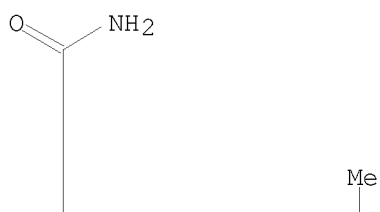
PAGE 3-A



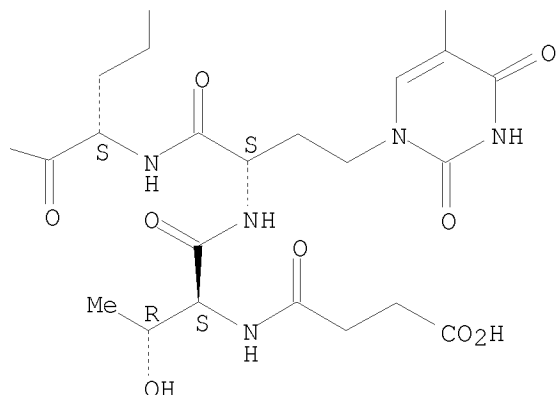
RN 350486-71-4 CAPLUS
 CN L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-(α S)- α -
 amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-glutaminy-
 L-alanyl-L-arginyl-L-arginyl-L-asparaginy-
 L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminy-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.





PAGE 2-C

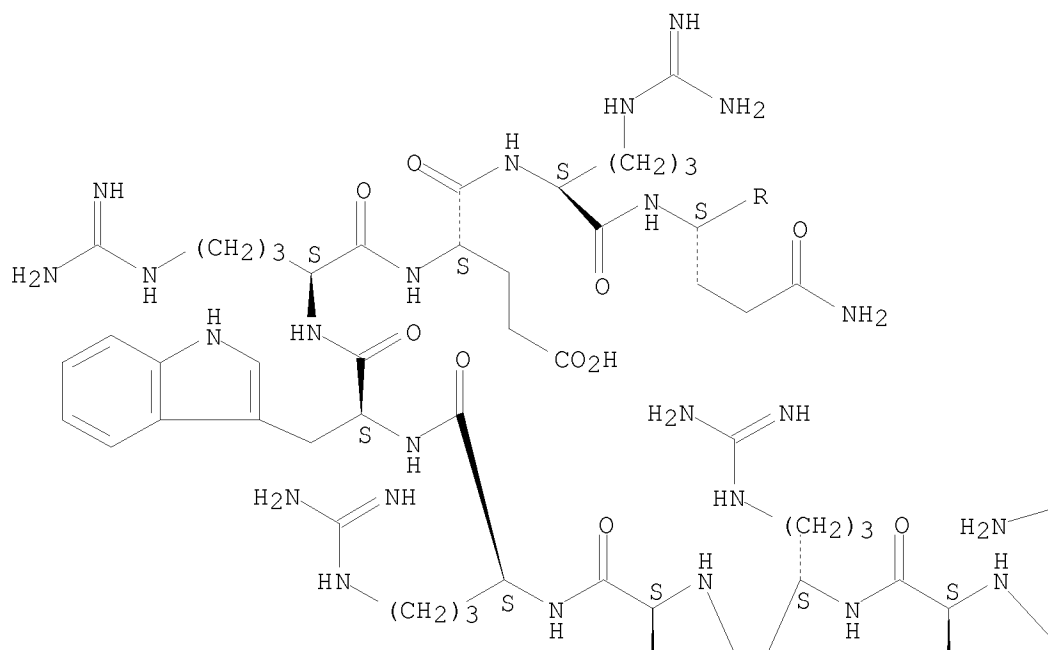


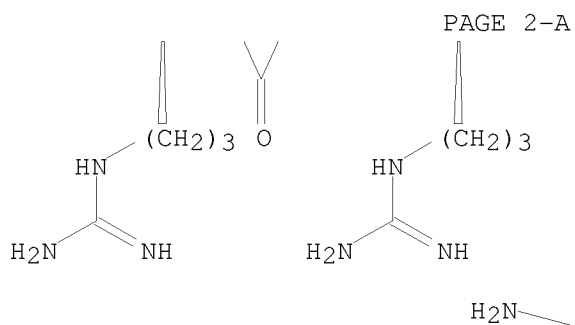
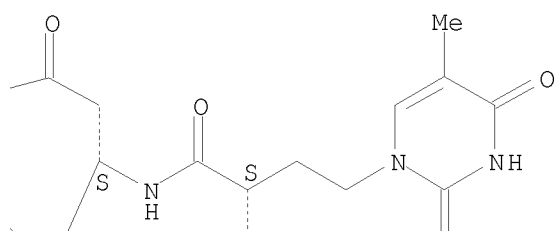
RN 350486-81-6 CAPLUS

CN	L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutaminyl-L-alanyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-asparaginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutamyl- (9CI) (CA INDEX NAME)
----	--

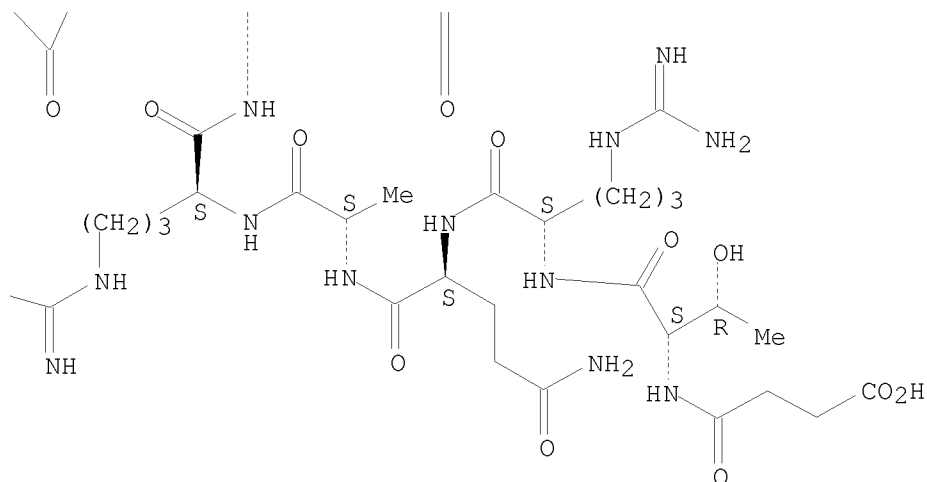
Absolute stereochemistry.

PAGE 1-A

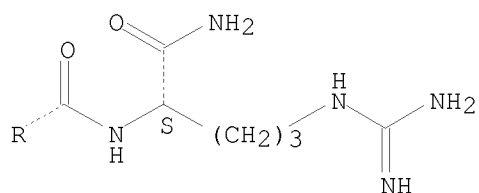




PAGE 2-B



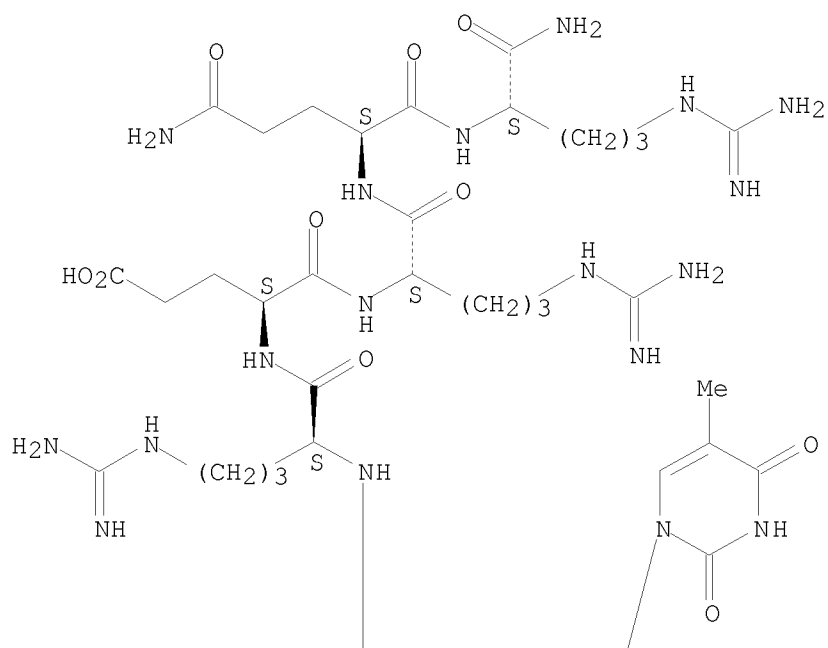
PAGE 3-A



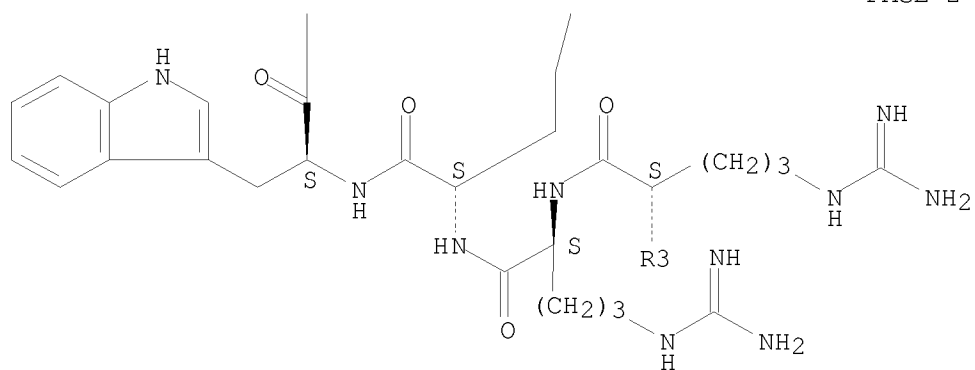
RN	350486-91-8	CAPLUS
CN	L-Argininamide, N-(3-carboxy-1-oxopropyl)-L-threonyl-L-arginyl-L-glutaminy-L-alanyl-L-arginyl-L-arginyl-L-asparaginy-L-arginyl-L-arginyl-L-arginyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-tryptophyl-L-arginyl-L- α -glutamyl-L-arginyl-L-glutaminy-L-(9CI) (CA INDEX NAME)	

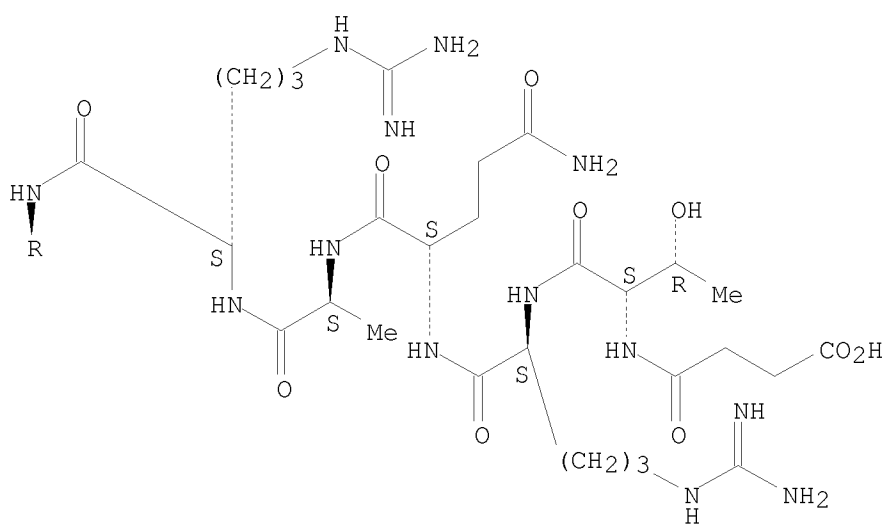
Absolute stereochemistry.

PAGE 1-A

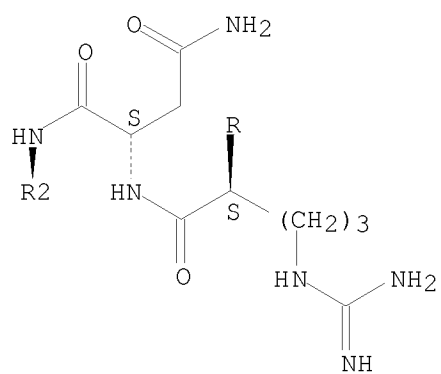


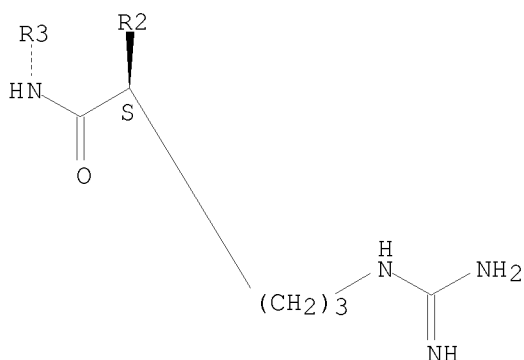
PAGE 2-A





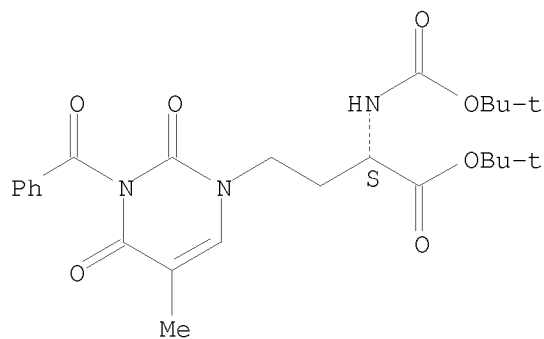
PAGE 4-A





IT 168264-02-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (design and synthesis of the nucleobase-conjugated peptides derived
 from HIV-1 rev and their binding properties to HIV-1 RRE RNA)
 RN 168264-02-6 CAPLUS
 CN 1(2H)-Pyrimidinebutanoic acid, 3-benzoyl- α -[[(1,1-
 dimethylethoxy)carbonyl]amino]-3,4-dihydro-5-methyl-2,4-dioxo-,
 1,1-dimethylethyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 22 THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)
 RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 52 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:168182 CAPLUS
 DN 134:203476
 TI Poly(ether-thioether)-, poly(ether-sulfoxide)-, and poly(ether-sulfone)
 nucleic acids, their synthesis and use in medicine and biochemistry
 IN Segev, David
 PA Bio-Rad Laboratories, Inc., USA
 SO PCT Int. Appl., 119 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001016365	A1	20010308	WO 2000-IL432	20000721
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6348583	B1	20020219	US 1999-411862	19991004
	CA 2382631	A1	20010308	CA 2000-2382631	20000721
	EP 1208234	A1	20020529	EP 2000-946256	20000721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003508062	T	20030304	JP 2001-520910	20000721
	AU 769619	B2	20040129	AU 2000-60126	20000721
PRAI	US 1999-384995	A	19990830		
	US 1999-411862	A	19991004		
	WO 2000-IL432	W	20000721		

OS MARPAT 134:203476

AB A compound comprising a poly(ether-thioether), poly(ether-sulfoxide) or poly(ether-sulfone) backbone bearing a plurality of ligands that are individually bound to chiral carbon atoms located within the backbone, at least one of the ligands including a moiety such as a naturally occurring nucleobase, a nucleobase binding group; a process of synthesizing the compound; monomers to be used in this process and their synthesis; and processes for using the compound in biochem. (e.g., in hybridization) and medicine (e.g., as pharmaceuticals to treat diseases or viral infections) are disclosed.

IT 328409-86-5P 328409-87-6P 328409-88-7P

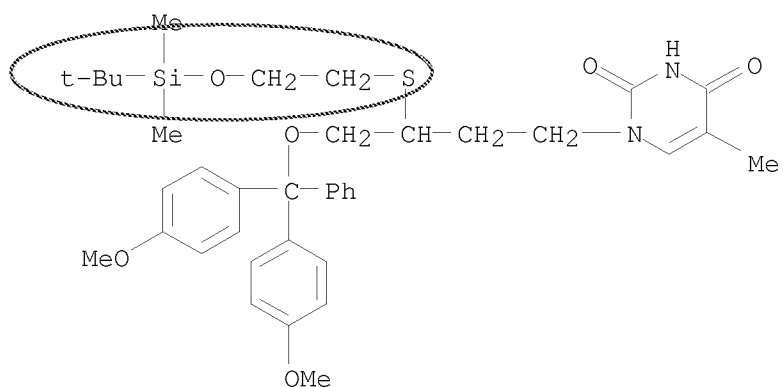
328409-89-8P 328409-90-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(poly(ether-thioether)-, poly(ether-sulfoxide)-, and poly(ether-sulfone) nucleic acids, their synthesis and use in medicine and biochem.)

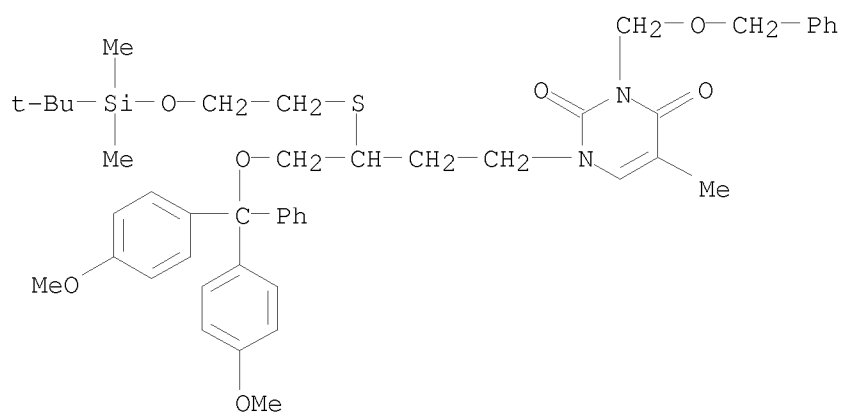
RN 328409-86-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl- (CA INDEX NAME)



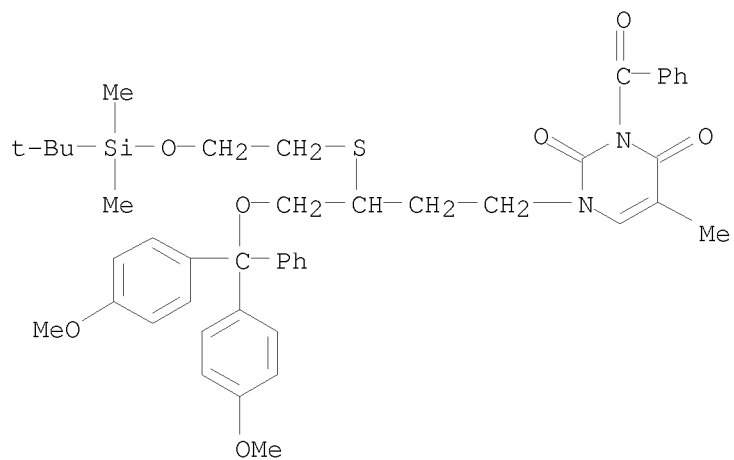
RN 328409-87-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



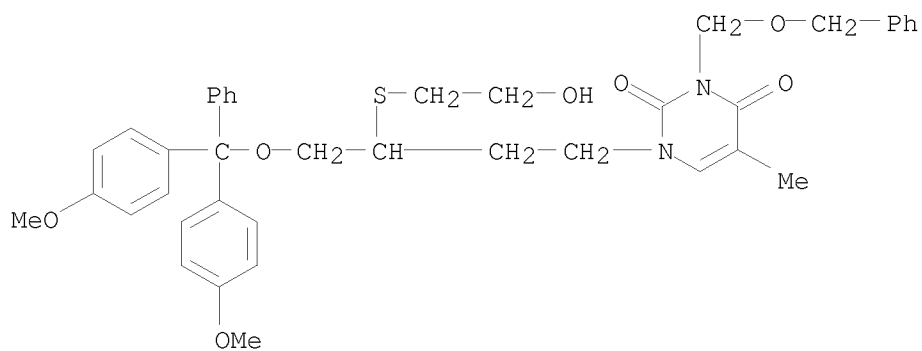
RN 328409-88-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]thio]butyl]-5-methyl- (CA INDEX NAME)



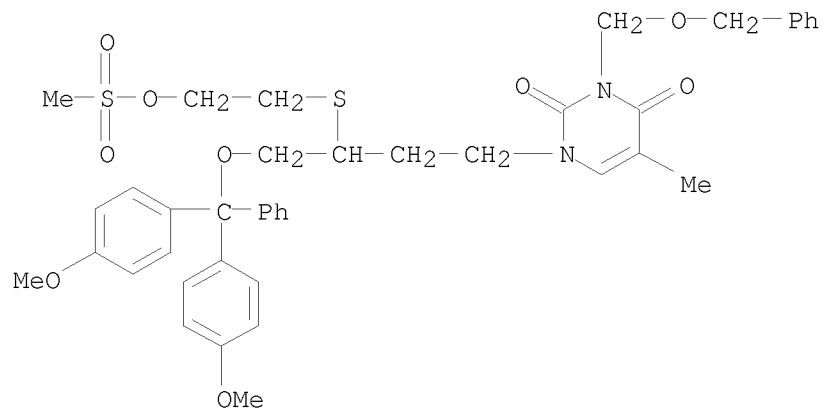
RN 328409-89-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[(2-hydroxyethyl)thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



RN 328409-90-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[4-[bis(4-methoxyphenyl)phenylmethoxy]-3-[[2-[(methylsulfonyl)oxy]ethyl]thio]butyl]-5-methyl-3-[(phenylmethoxy)methyl]- (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L11 ANSWER 53 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:152703 CAPLUS
DN 134:204116
TI Alpha-helical peptide nucleic acid, their preparation and diagnostic and
therapeutic uses
IN Garner, Philip P.
PA USA
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001014398	A1	20010301	WO 2000-US21845	20000811
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 7183394	B1	20070227	US 2002-110017	20020328
PRAI	US 1999-150637P	P	19990825		
	WO 2000-US21845	W	20000811		

The present invention relates to peptide-based nucleic acid surrogates (PNAs) having a repeating structure of (AAB-aan)_m and a particular secondary structure that can bind to particular single-stranded nucleic acid targets. Preferably the peptide-based nucleic acid surrogate has an alpha-helical secondary structure (α PNA). Also, the present invention relates to the method of forming peptide-based nucleic acid surrogates having a particular secondary structure. The nucleic acid surrogates may be utilized for therapeutic (antisense, antigene), diagnostic (genetic), and mol. switching (α PNA chips) applications.

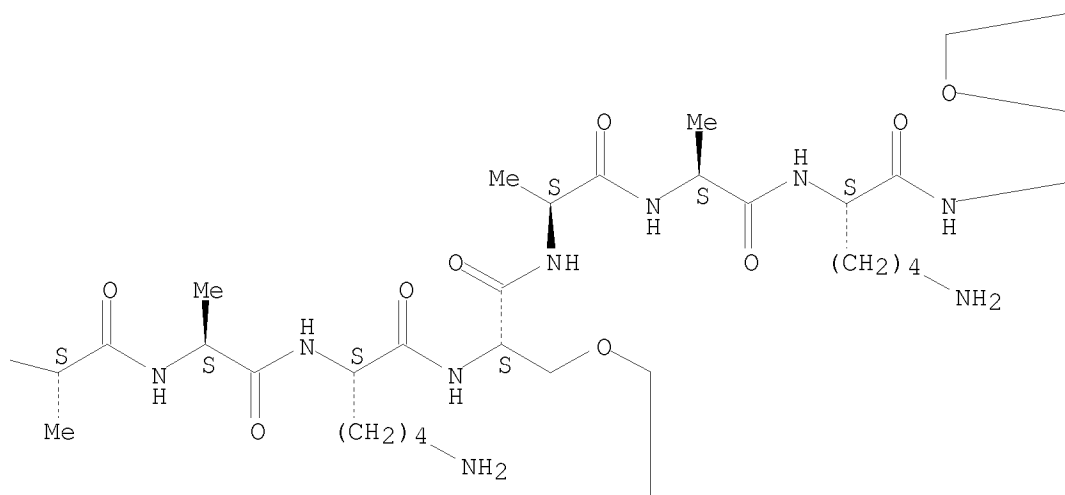
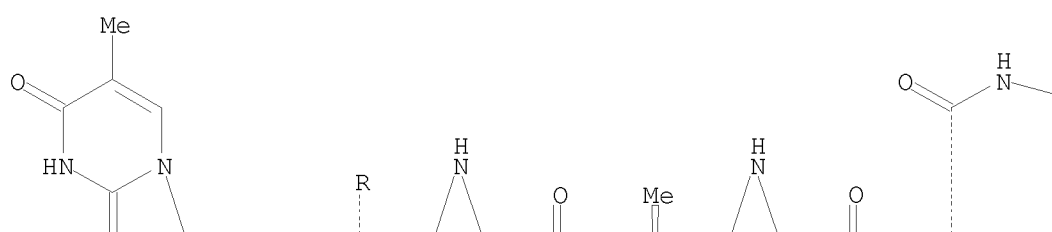
IT	267241-31-6P	267241-34-9P	267241-35-0P
	328081-73-8P	328081-74-9P	328081-75-0P
	328081-76-1P	328081-77-2P	328081-78-3P
	328081-79-4P	328081-80-7P	328081-81-8P
	328081-82-9P		

RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

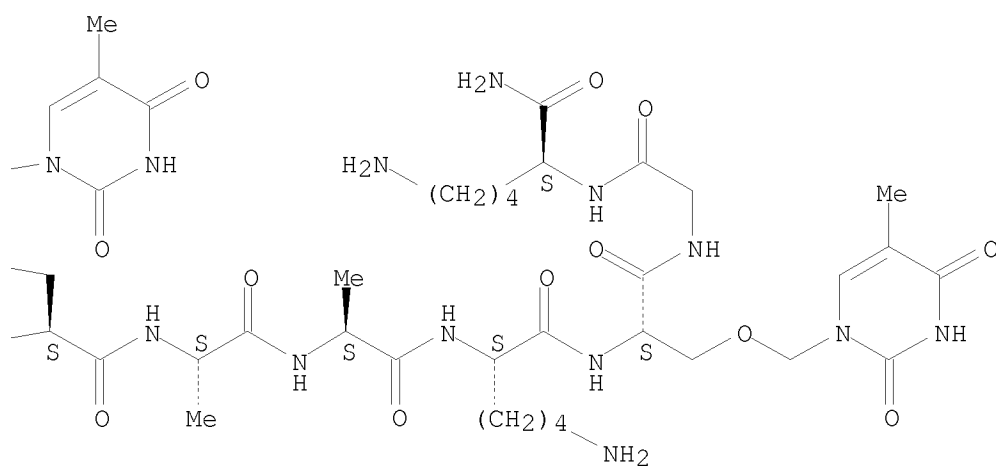
(alpha-helical peptide nucleic acid, their preparation and diagnostic and therapeutic uses)

RN	267241-31-6	CAPLUS
CN	L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl-	(9CI) (CA INDEX NAME)

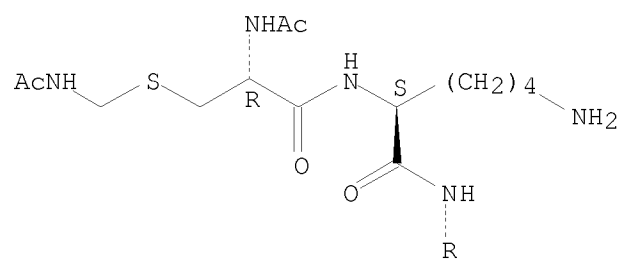
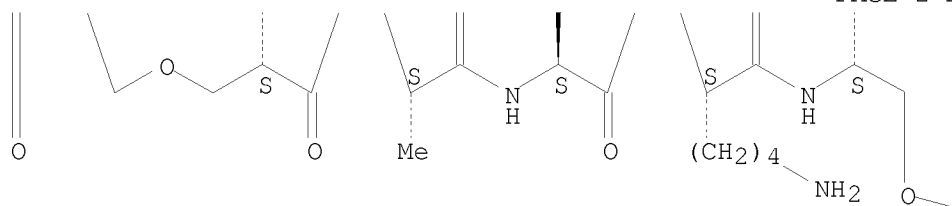
Absolute stereochemistry.

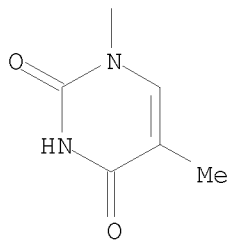
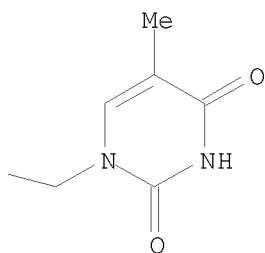


PAGE 1-C



PAGE 2-A

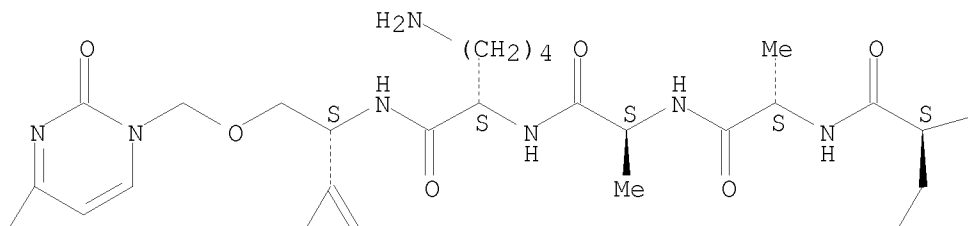


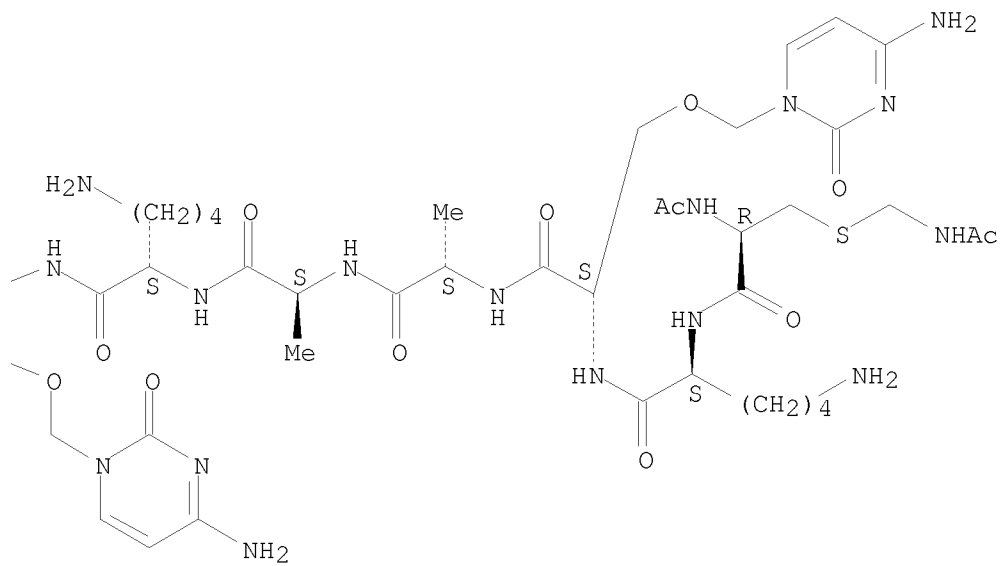
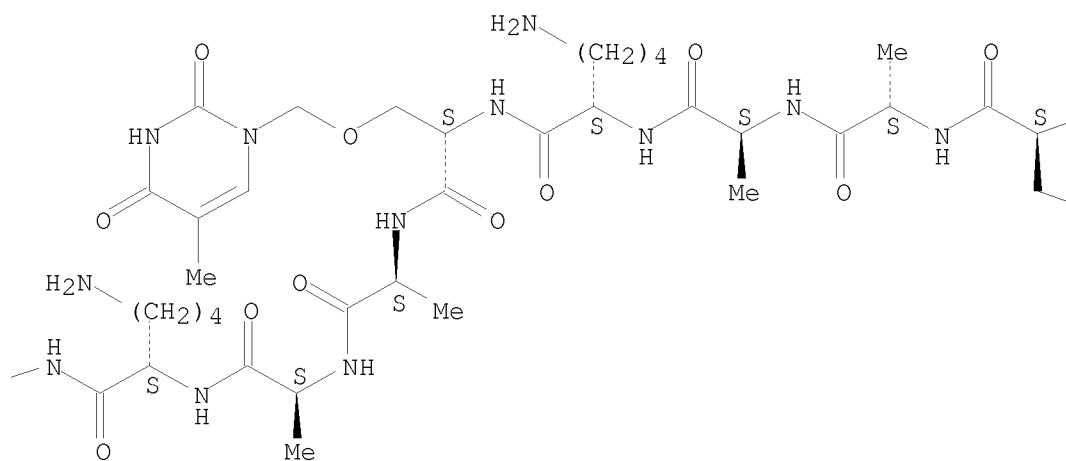


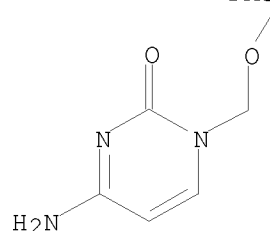
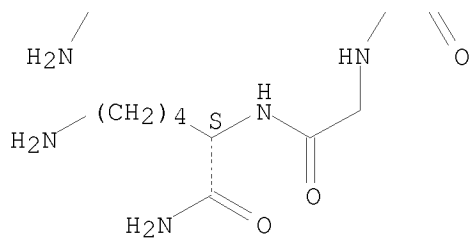
RN 267241-34-9 CAPLUS

CN L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



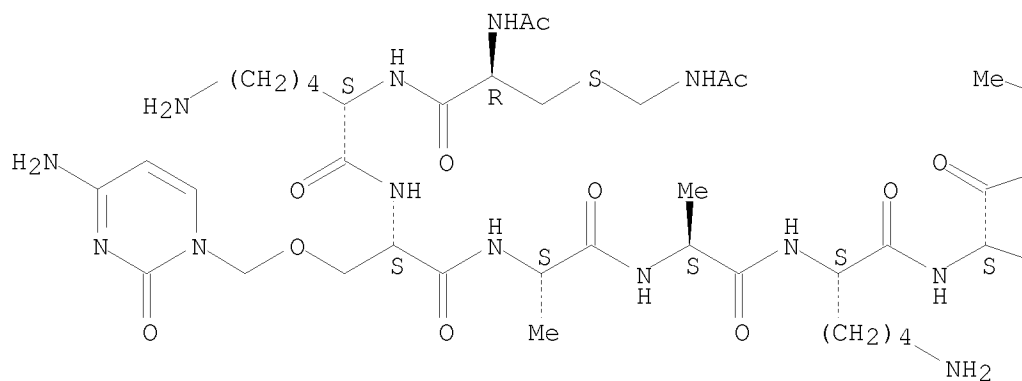




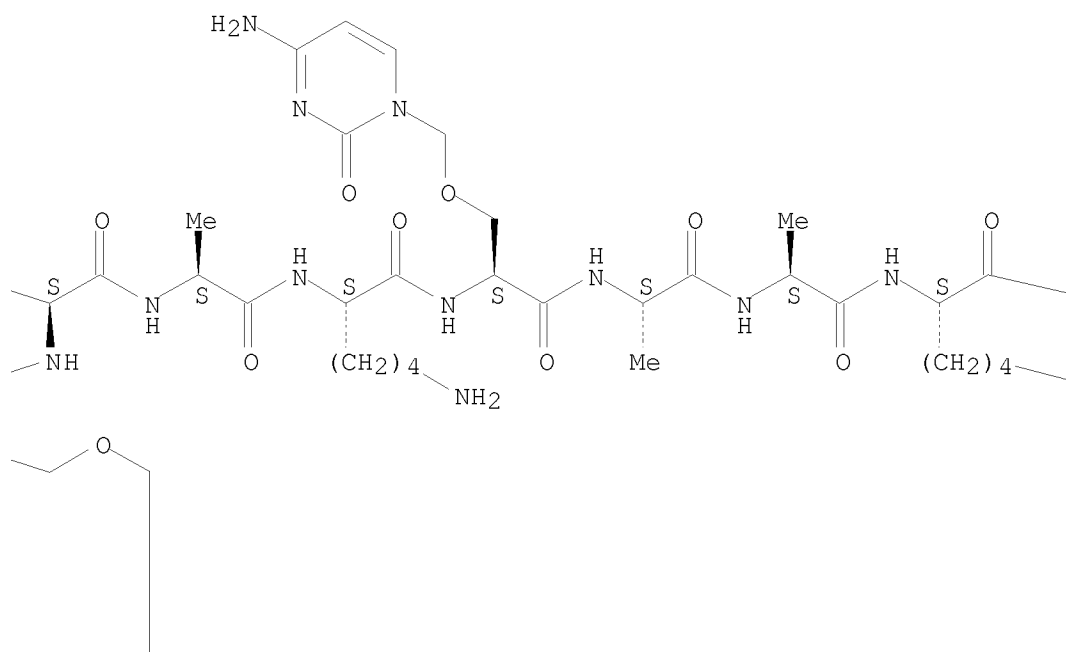
RN 267241-35-0 CAPLUS

CN L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX NAME)

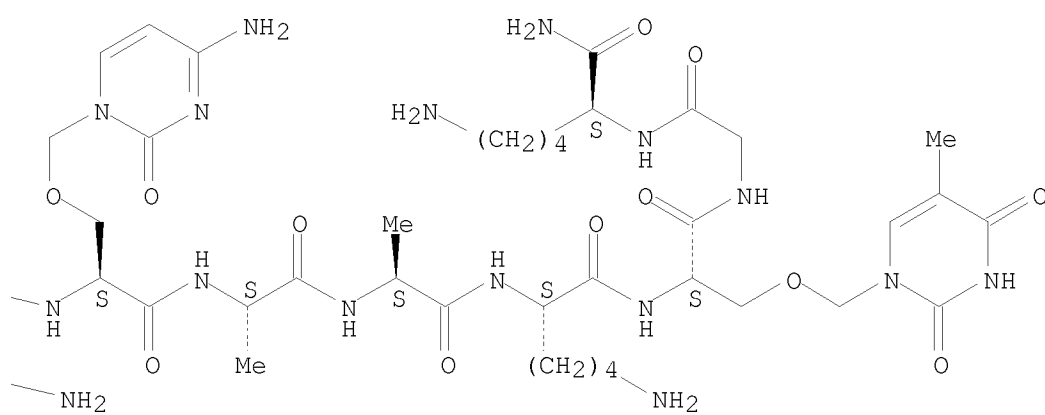
Absolute stereochemistry.

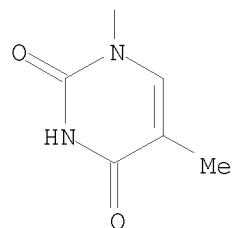


PAGE 1-B



PAGE 1-C

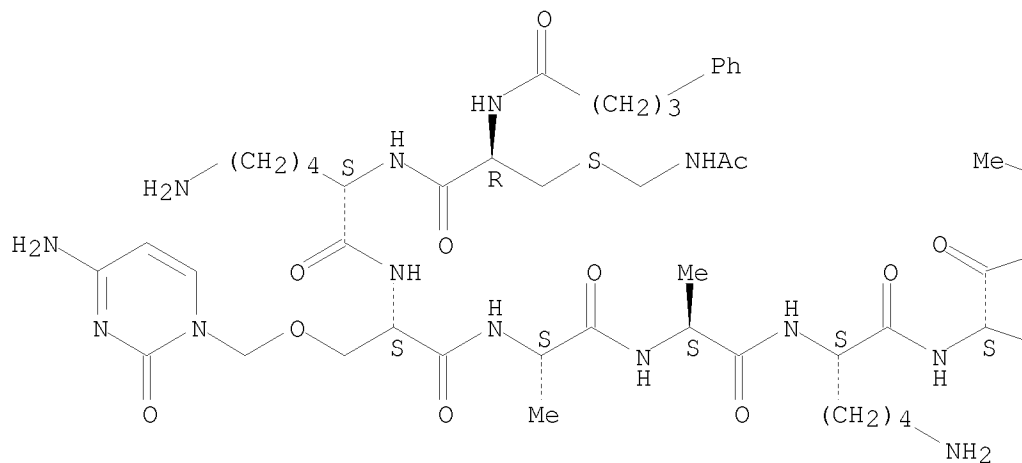




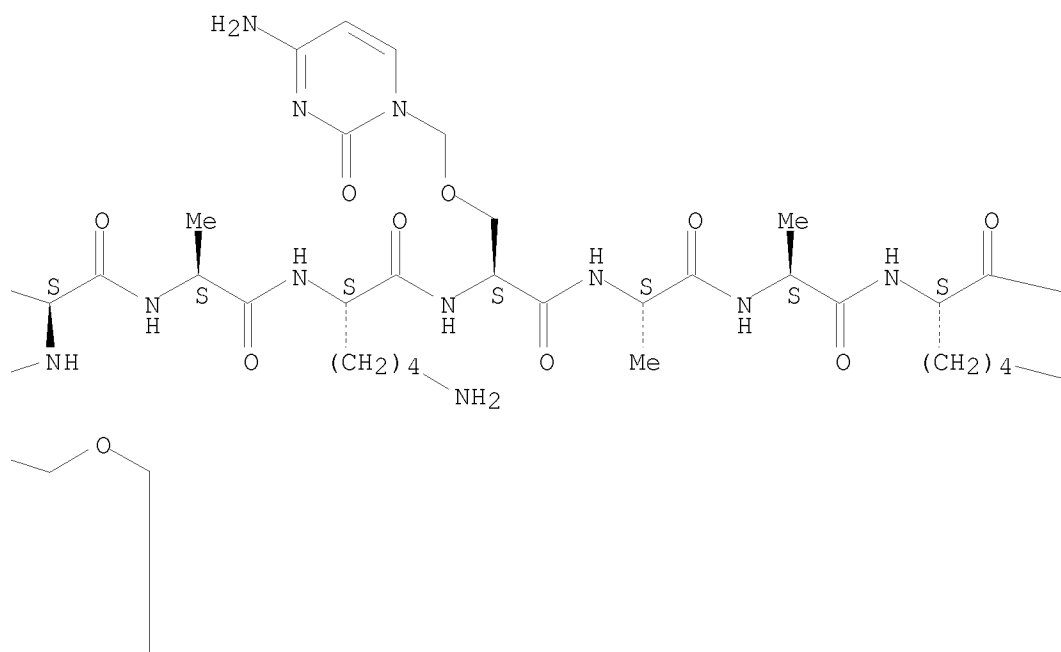
RN 328081-73-8 CAPLUS

CN L-Lysinamide, S-[(acetylamino)methyl]-N-(1-oxo-4-phenylbutyl)-L-cysteinyll-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI)
(CA INDEX NAME)

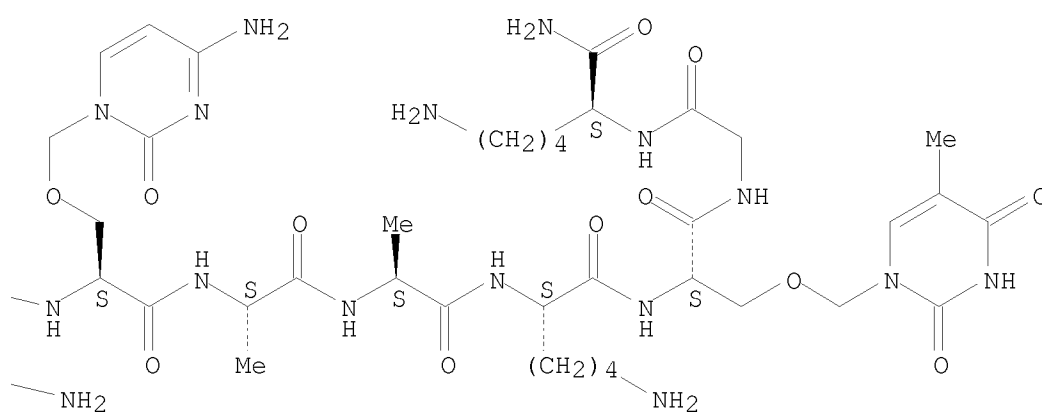
Absolute stereochemistry.

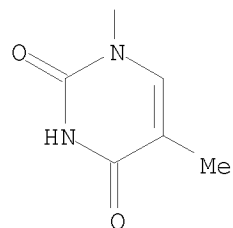


PAGE 1-B



PAGE 1-C

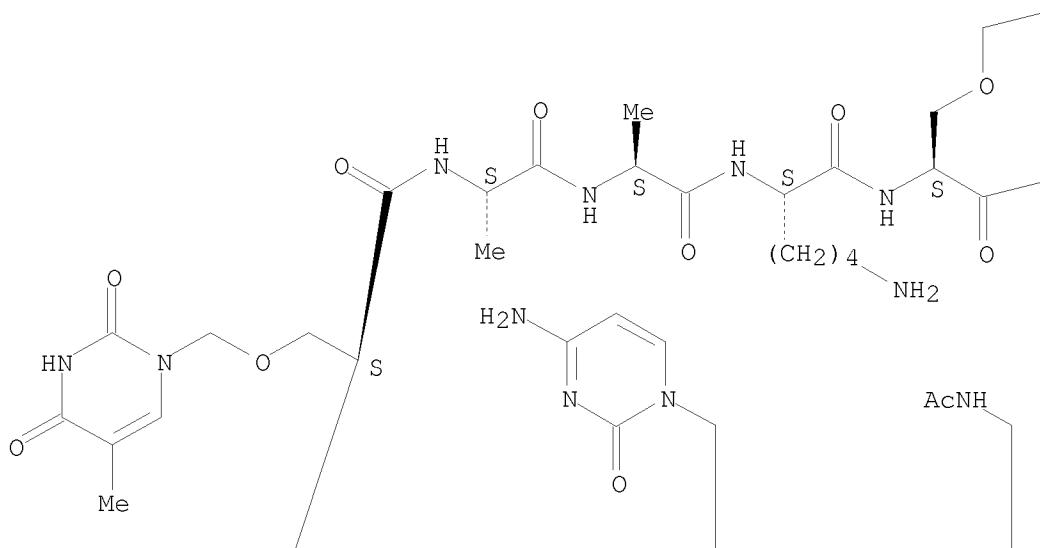




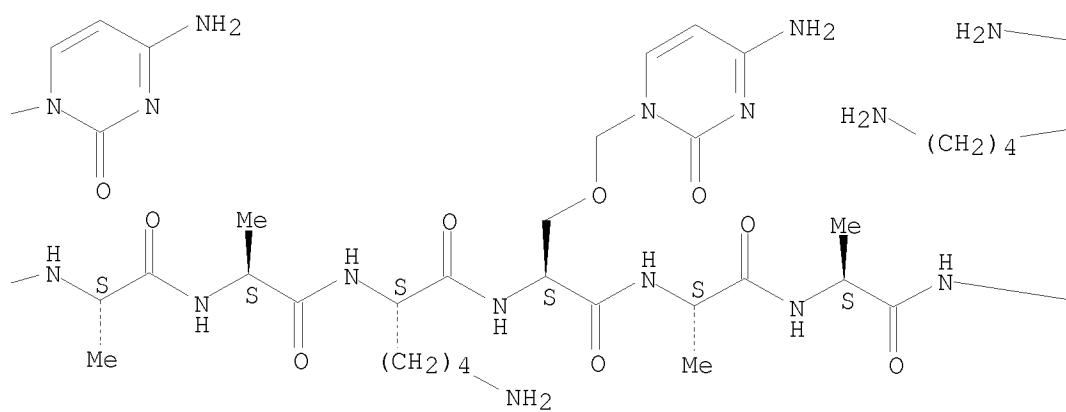
RN 328081-74-9 CAPLUS

CN L-Lysinamide, S-[(acetylamino)methyl]-N-[4-(4-methoxyphenyl)-1-oxobutyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI)
(CA INDEX NAME)

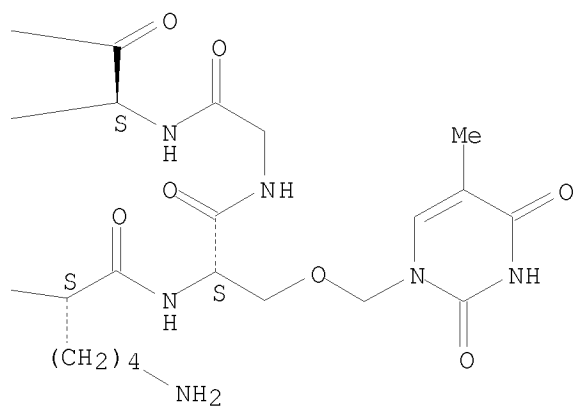
Absolute stereochemistry.



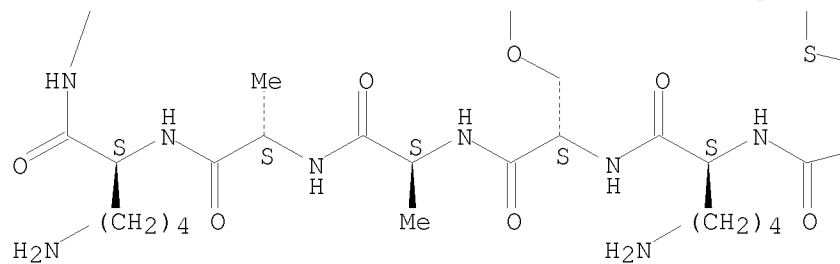
PAGE 1-B

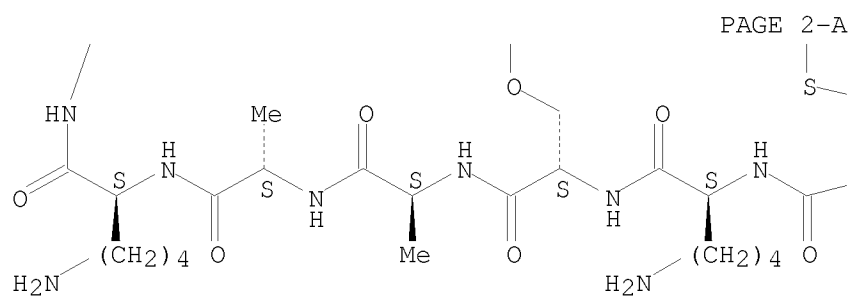
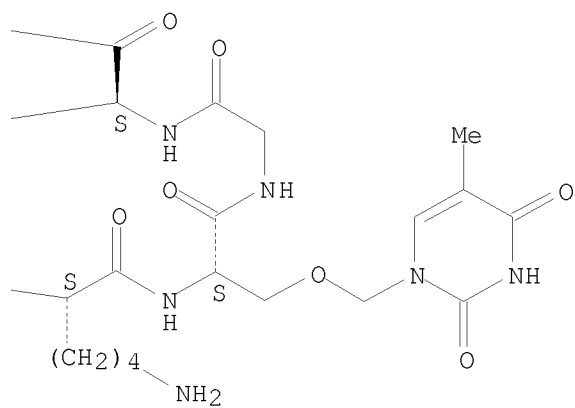


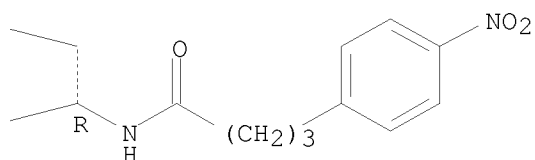
PAGE 1-C



PAGE 2-A



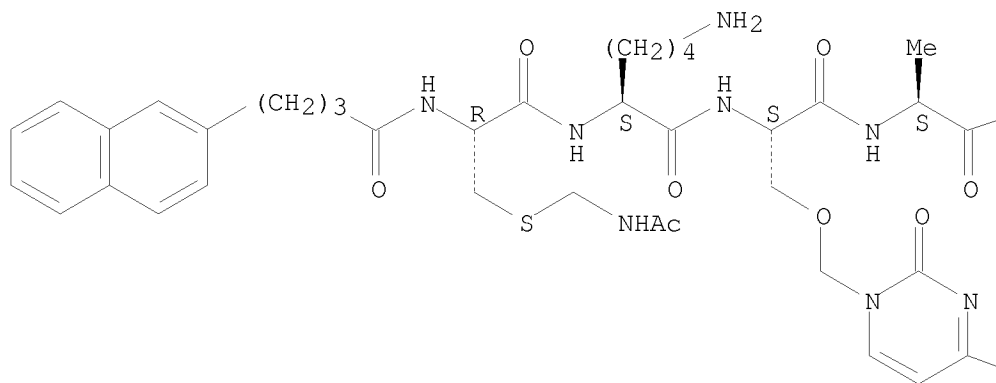




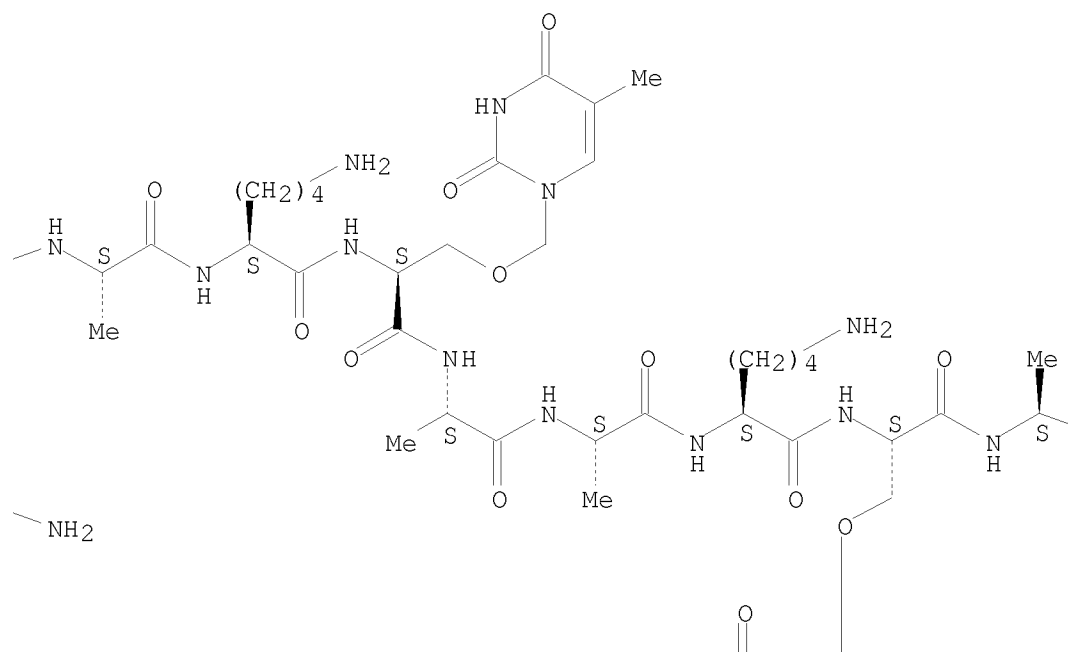
RN 328081-76-1 CAPLUS

CN L-Lysinamide, S-[(acetylamino)methyl]-N-[4-(2-naphthalenyl)-1-oxobutyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI)
(CA INDEX NAME)

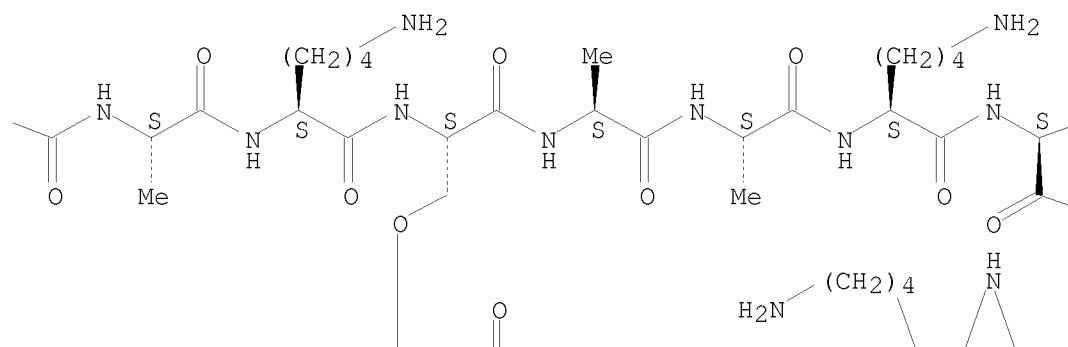
Absolute stereochemistry.



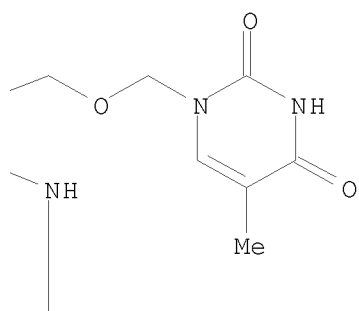
PAGE 1-B



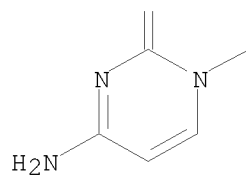
PAGE 1-C



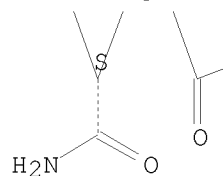
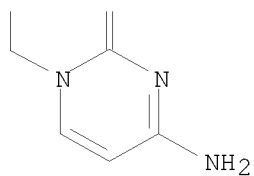
PAGE 1-D



PAGE 2-B



PAGE 2-C



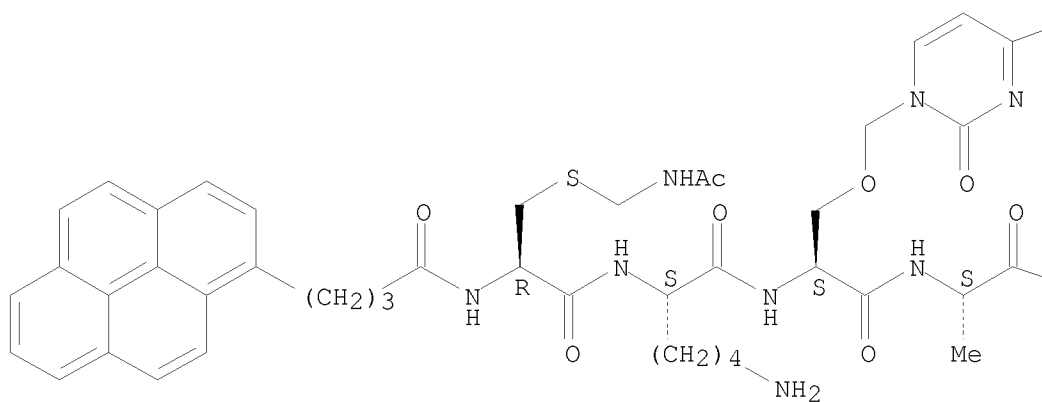
PAGE 2-D

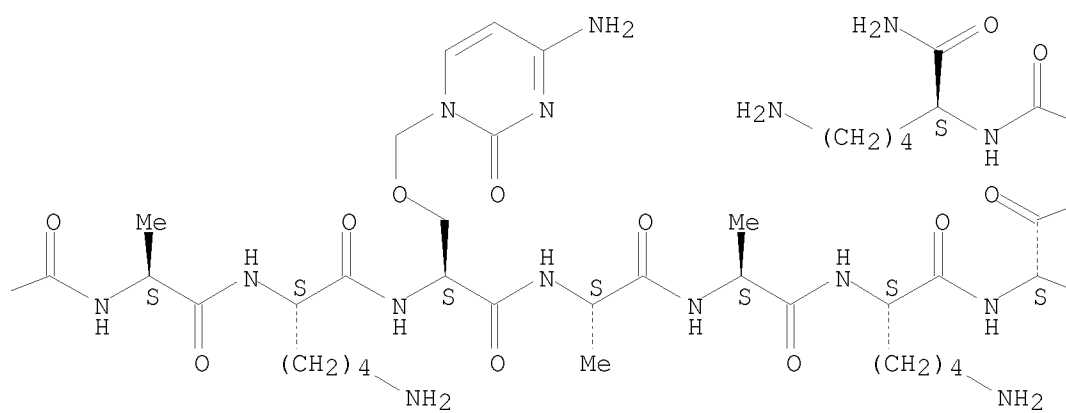
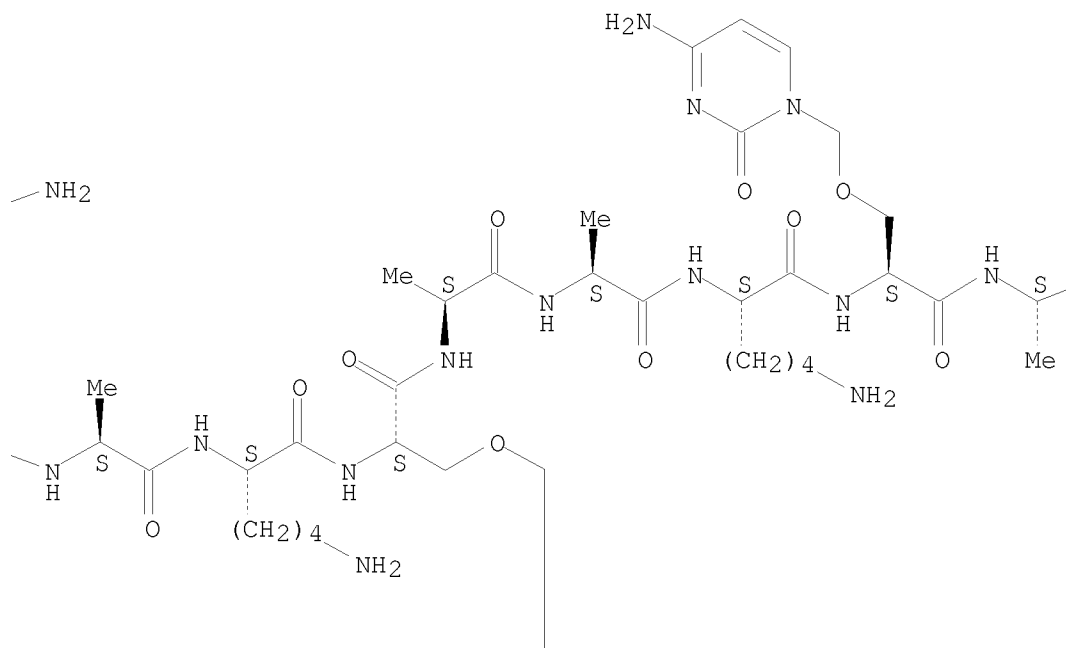
RN 328081-77-2 CAPLUS
 CN L-Lysinamide, S-[(acetylamino)methyl]-N-[1-oxo-4-(1-pyrenyl)butyl]-L-

cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI)
(CA INDEX NAME)

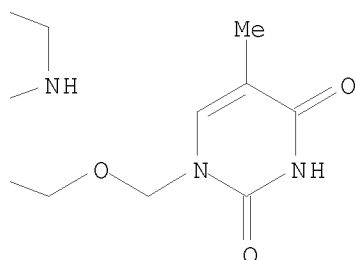
Absolute stereochemistry.

PAGE 1-A

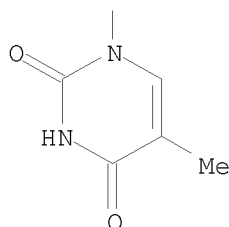




PAGE 1-D

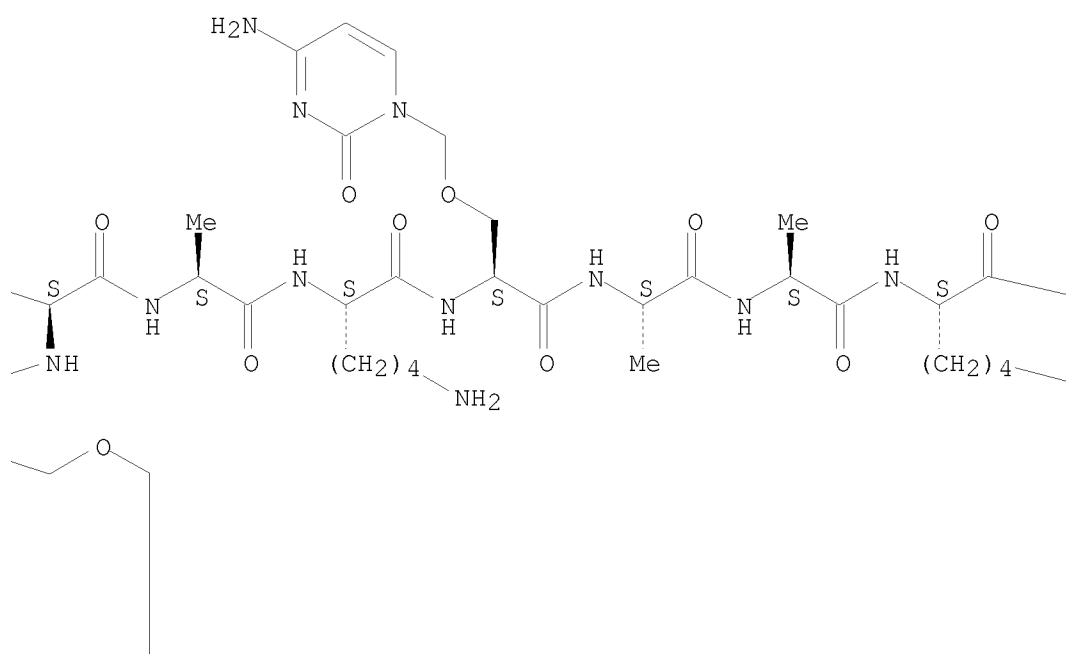
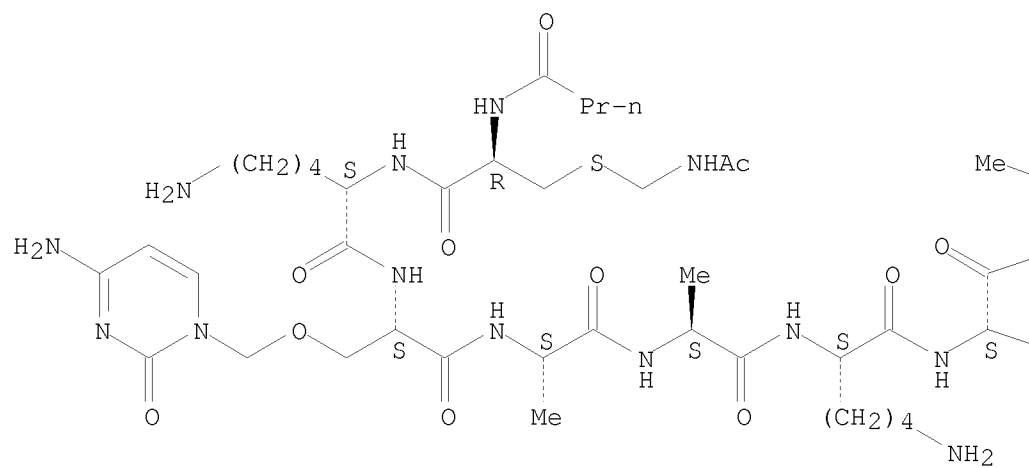


PAGE 2-B

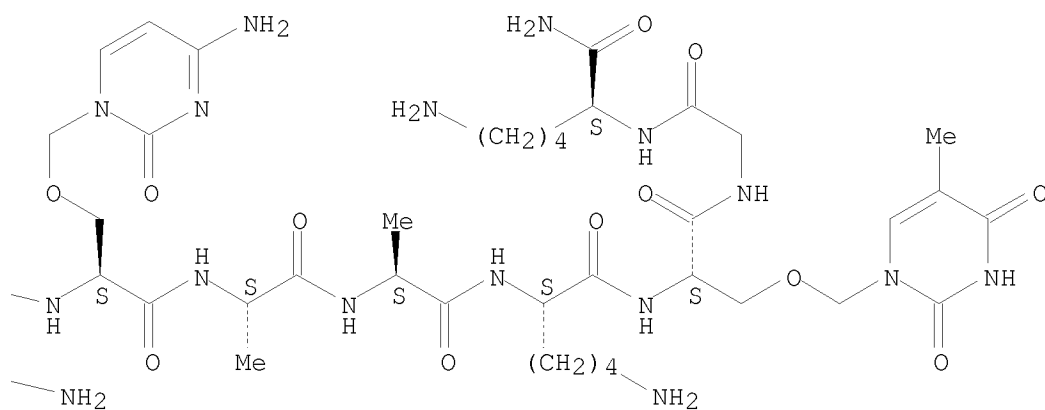


RN 328081-78-3 CAPLUS
 CN L-Lysinamide, S-[(acetylamino)methyl]-N-(1-oxobutyl)-L-cysteinyl-L-lysyl-O-
 [(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-
 lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-
 L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-
 seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-
 pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX
 NAME)

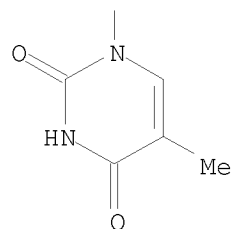
Absolute stereochemistry.



PAGE 1-C

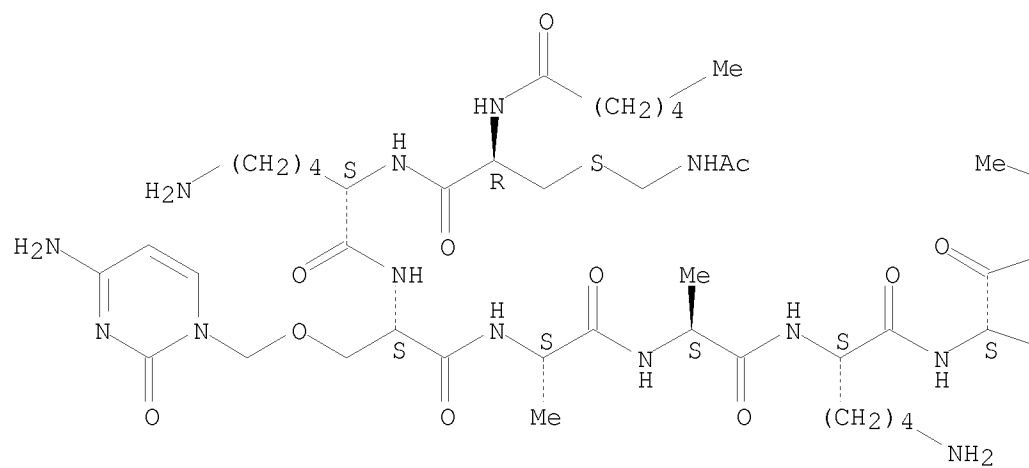


PAGE 2-B

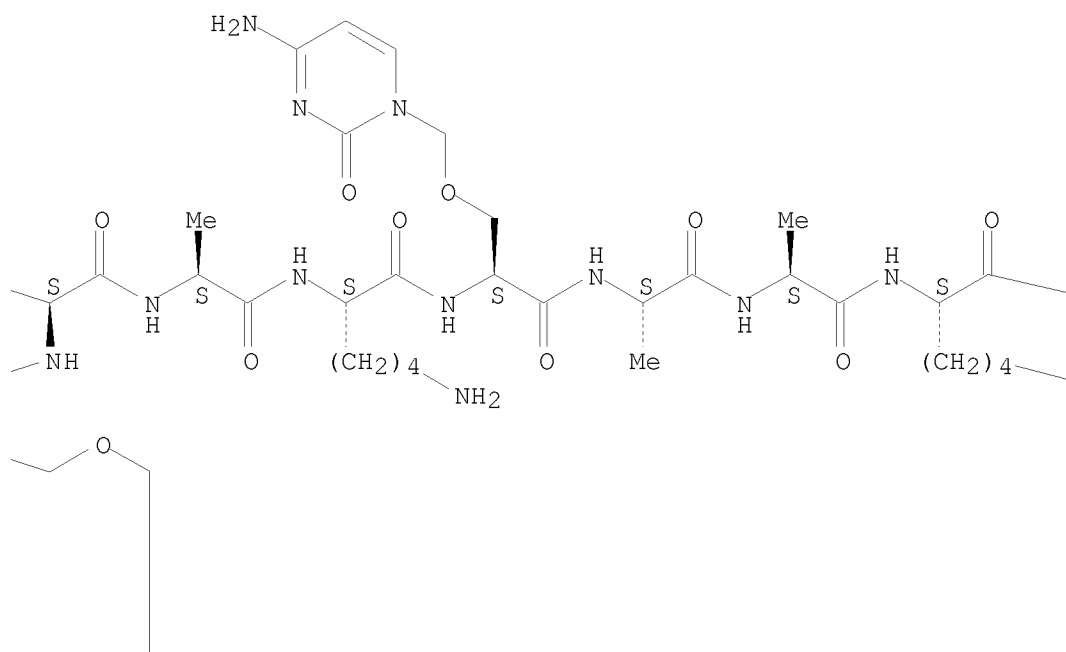


RN 328081-79-4 CAPLUS
 CN L-Lysinamide, S-[(acetylamino)methyl]-N-(1-oxohexyl)-L-cysteinyl-L-lysyl-O-
 [(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-
 lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-
 L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-
 seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-
 pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX
 NAME)

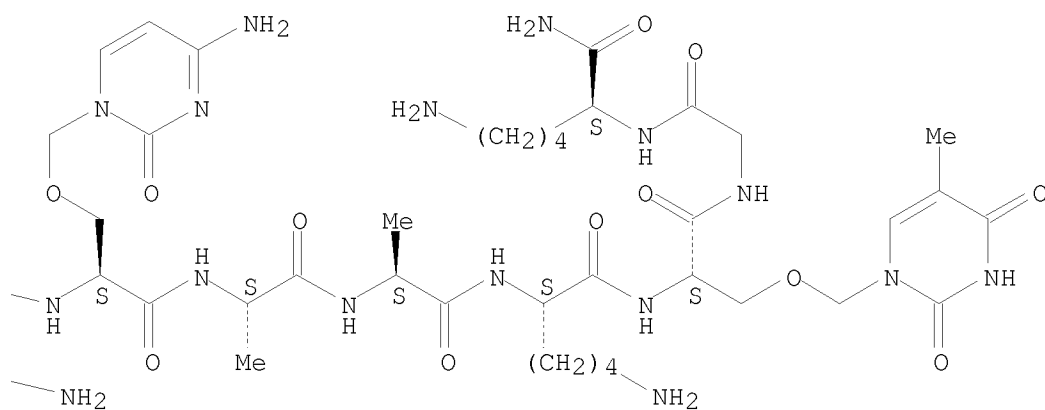
Absolute stereochemistry.



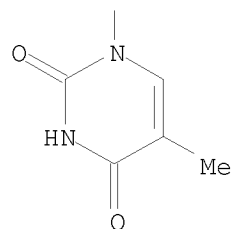
PAGE 1-B



PAGE 1-C



PAGE 2-B

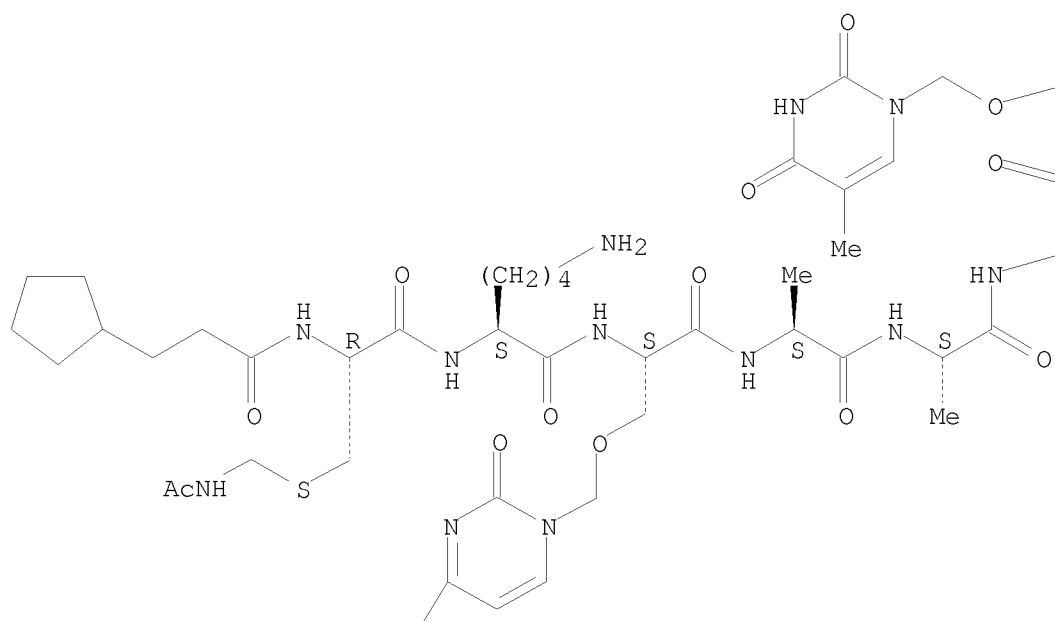


RN 328081-80-7 CAPLUS

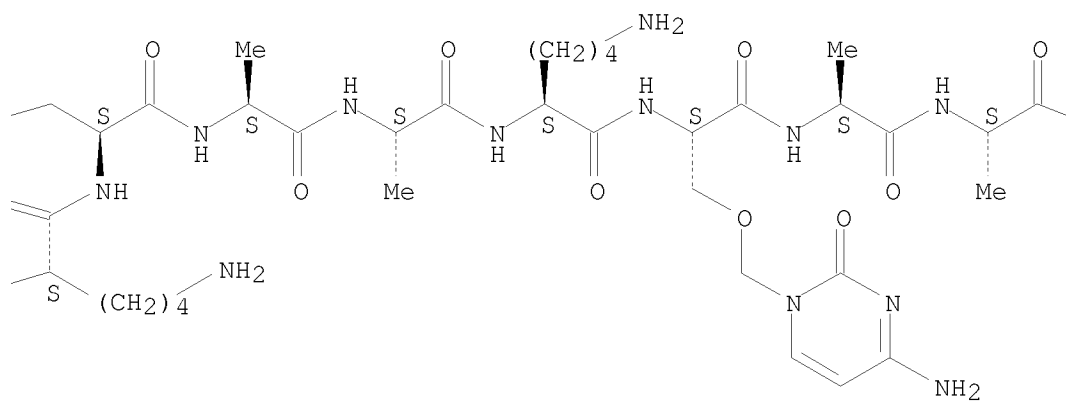
CN L-Lysinamide, S-[(acetylamino)methyl]-N-(3-cyclopentyl-1-oxopropyl)-L-cysteiny-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

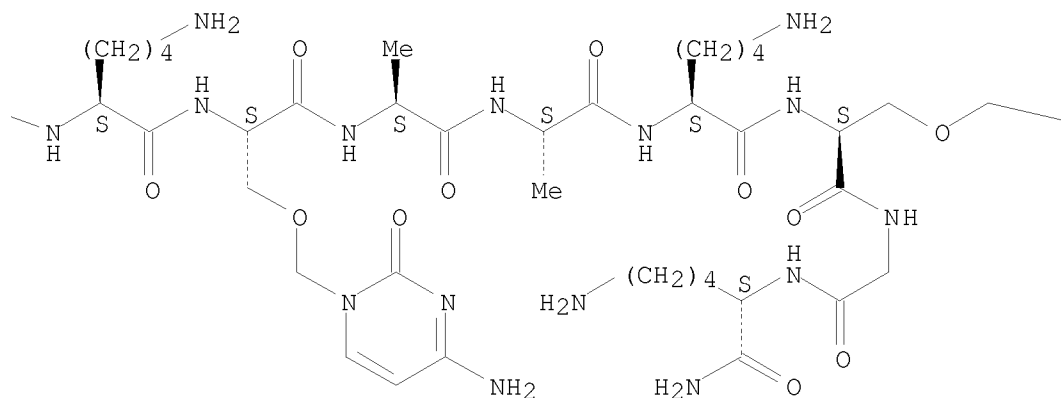
PAGE 1-A



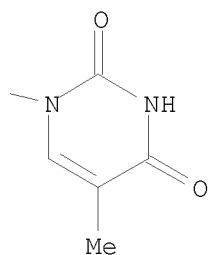
PAGE 1-B



PAGE 1-C



PAGE 1-D



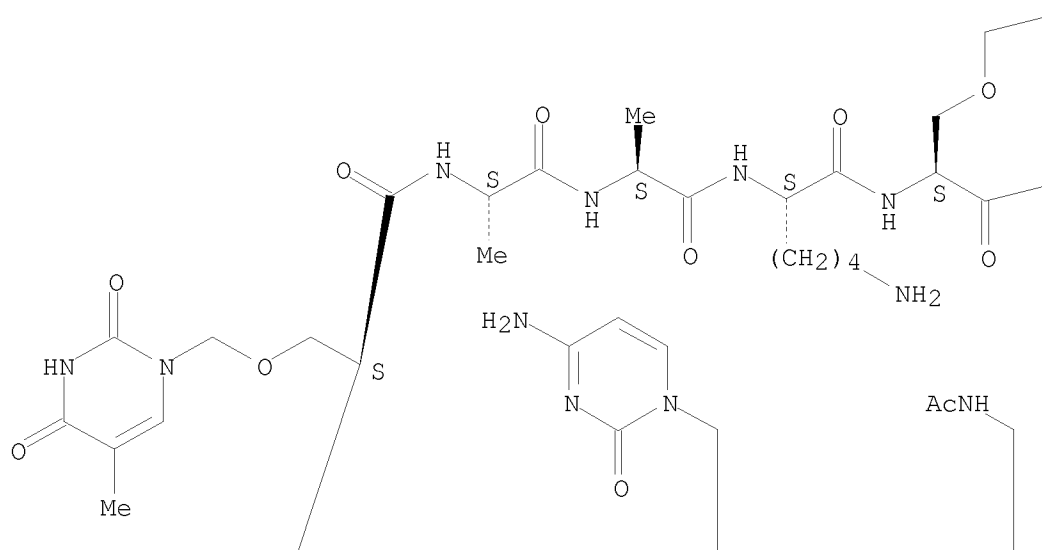
PAGE 2-A



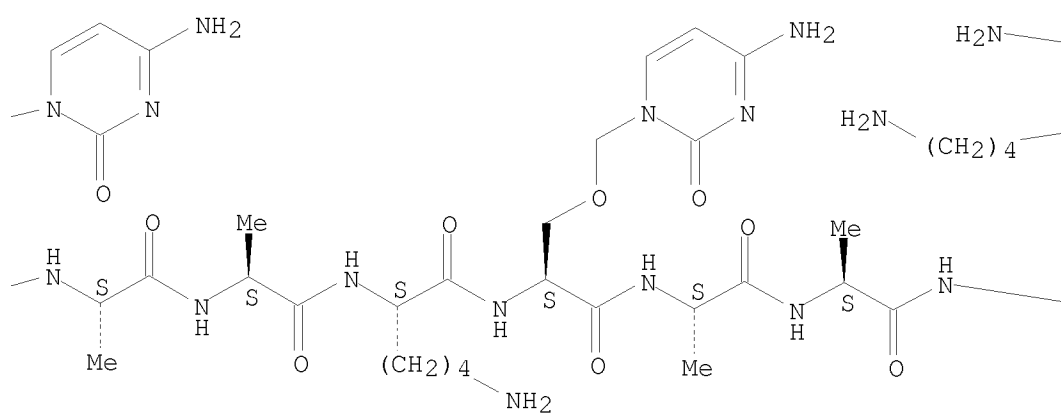
RN 328081-81-8 CAPLUS
 CN L-Lysinamide, S-[(acetylamino)methyl]-N-(4-cyclohexyl-1-oxobutyl)-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-lysylglycyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

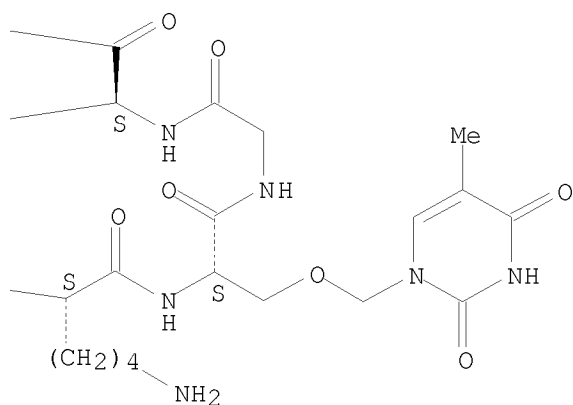
PAGE 1-A



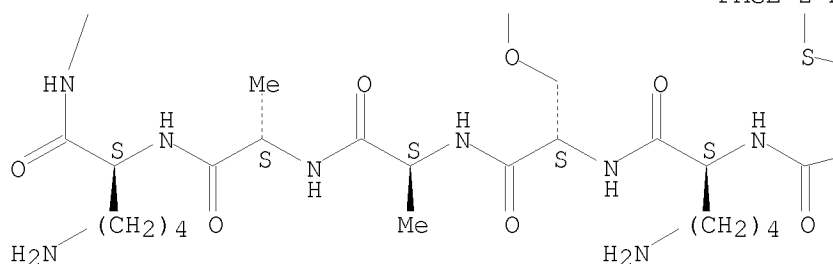
PAGE 1-B



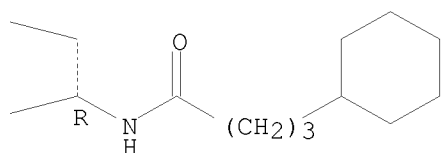
PAGE 1-C



PAGE 2-A



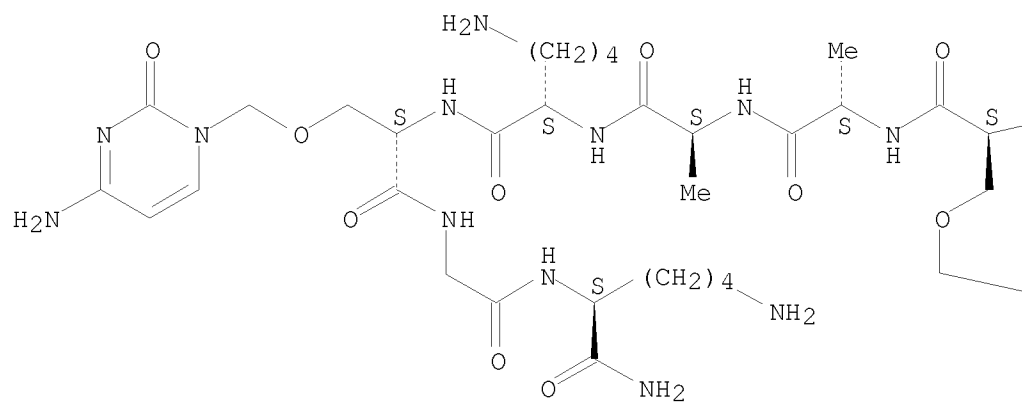
PAGE 2-B



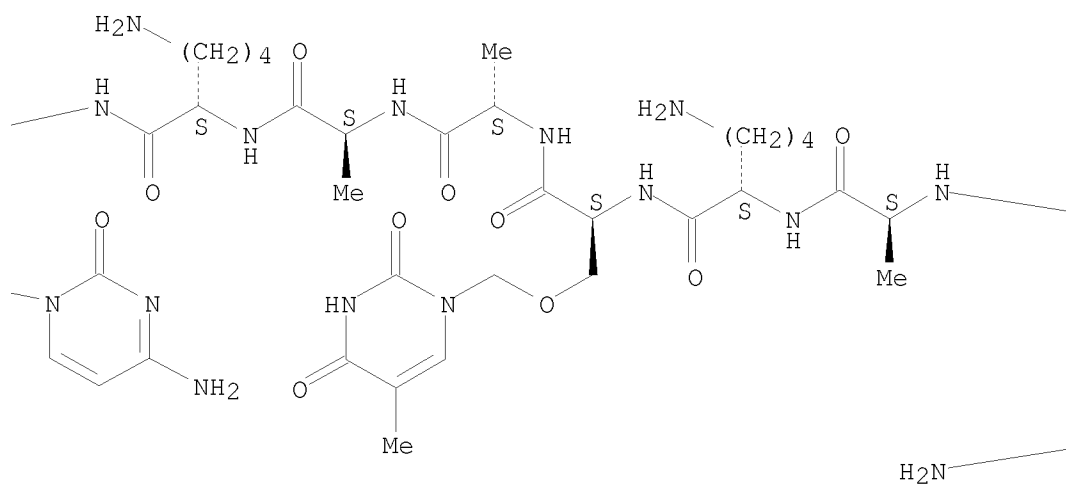
RN 328081-82-9 CAPLUS

CN L-Lysinamide, S-[(acetylamino)methyl]-N-(4-cyclohexyl-1-oxobutyl)-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-lysylglycyl- (9CI) (CA INDEX NAME)

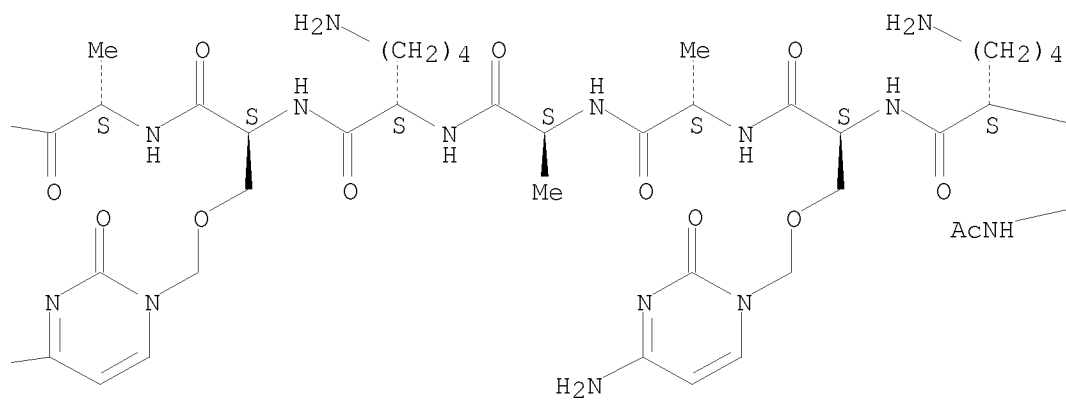
Absolute stereochemistry.



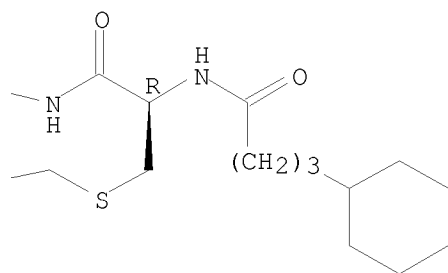
PAGE 1-B



PAGE 1-C



PAGE 1-D

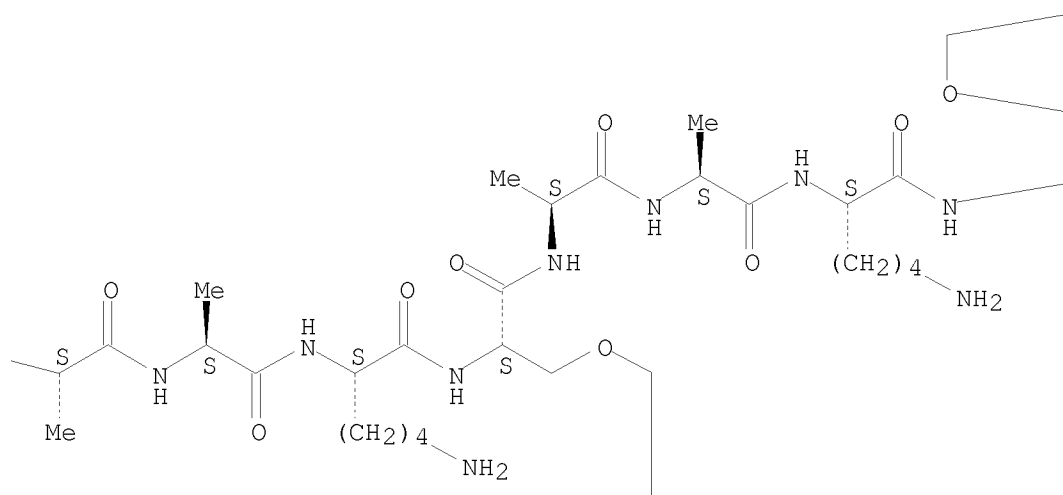
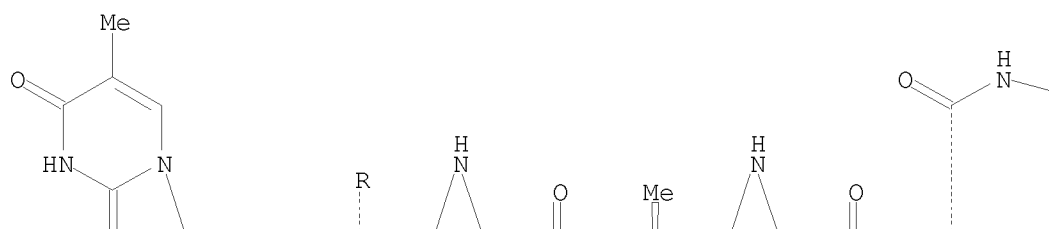


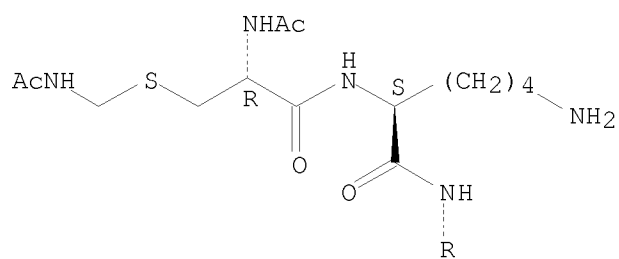
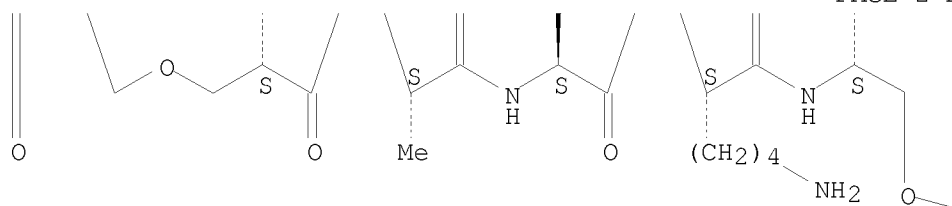
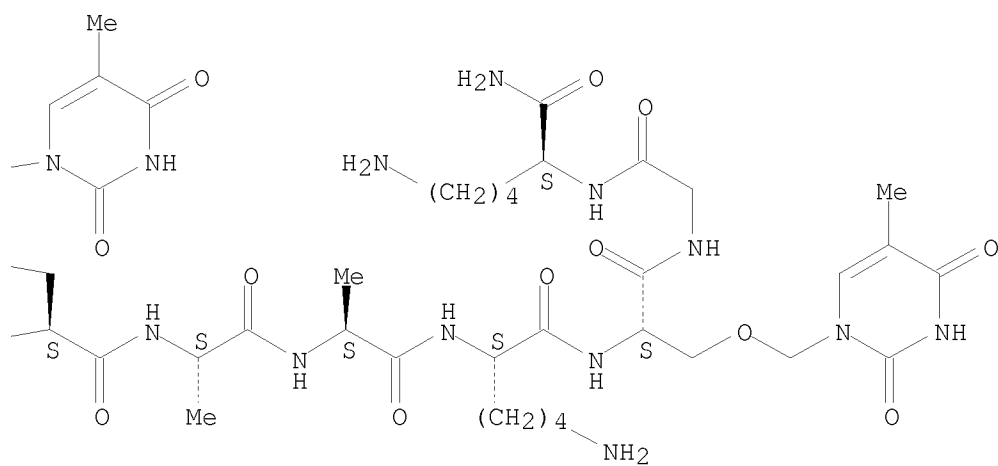
RE.CNT 2

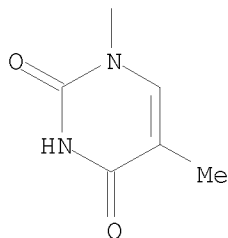
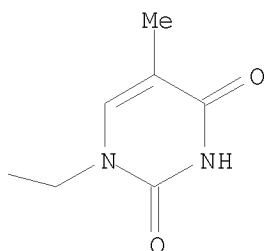
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 54 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2000:125937 CAPLUS
 DN 132:334765
 TI α -Helical Peptide Nucleic Acids (α PNAs): A New Paradigm for
 DNA-Binding Molecules
 AU Garner, Philip; Dey, Subhakar; Huang, Yumei
 CS Department of Chemistry, Case Western Reserve University, Cleveland, OH,
 44106-7078, USA
 SO Journal of the American Chemical Society (2000), 122(10), 2405-2406
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 AB Peptide nucleic acid analogs comprising an α -helix forming peptide
 [Ac-CysAc_m-Lys-(SerB-Ala₂-Lys-) ₄SerB-Gly-Lys-NH₂ (I) or
 Ac-Lys₂-(SerB-ala₂-Lys) ₄-SerB-Gly-CysAc_m-NH₂] with nucleobases attached to
 the regularly spaced serine residues (α PNAs) are capable of forming
 Watson-Crick base pairs with complimentary single-stranded nucleic acid
 targets. α PNAs with as few as five nucleobases bind with high
 affinity in a sequence-specific manner. Gel-shift mobility and CD titration
 studies were performed for nine α PNA-DNA hybridization duplexes. No
 binding was observed between abasic I and d(TA₃G₅A₃T).
 IT 268568-85-0P 268568-87-2P 268568-88-3P
 268568-89-4P 268568-90-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and hybridization of DNA by α -helical peptide nucleic
 acids)
 RN 268568-85-0 CAPLUS
 CN DNA, d(A-A-A-A-A-A-A-A-A-A), compd. with
 N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-
 lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-
 L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-
 lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-
 serylglycyl-L-lysynamide (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 267241-31-6
 CMF C115 H185 N39 O38 S

Absolute stereochemistry.







CM 2

CRN 55508-40-2
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 268568-87-2 CAPLUS

CN DNA, d(A-A-A-G-G-A-G-G-A-A-A), compd. with
 N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl-L-lysineamide (9CI) (CA INDEX NAME)

CM 1

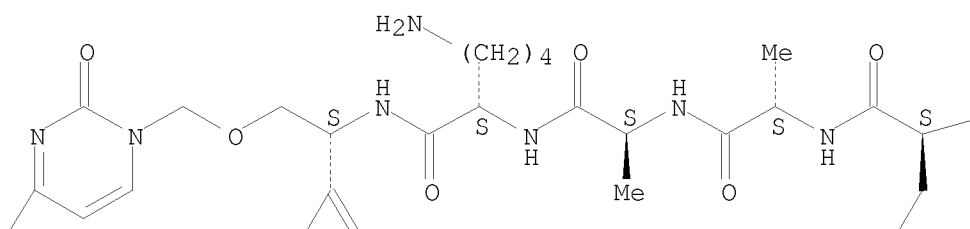
CRN 268198-00-1
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

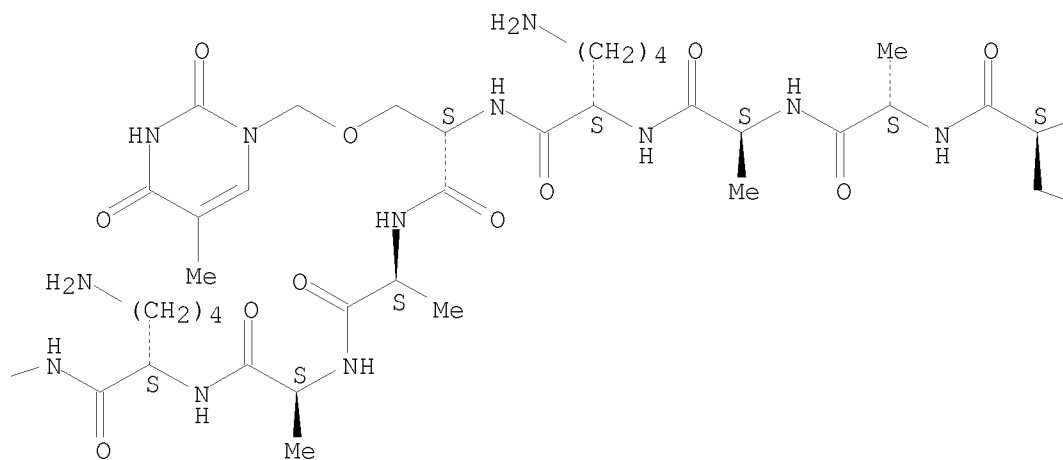
CM 2

CRN 267241-34-9
 CMF C111 H181 N43 O34 S

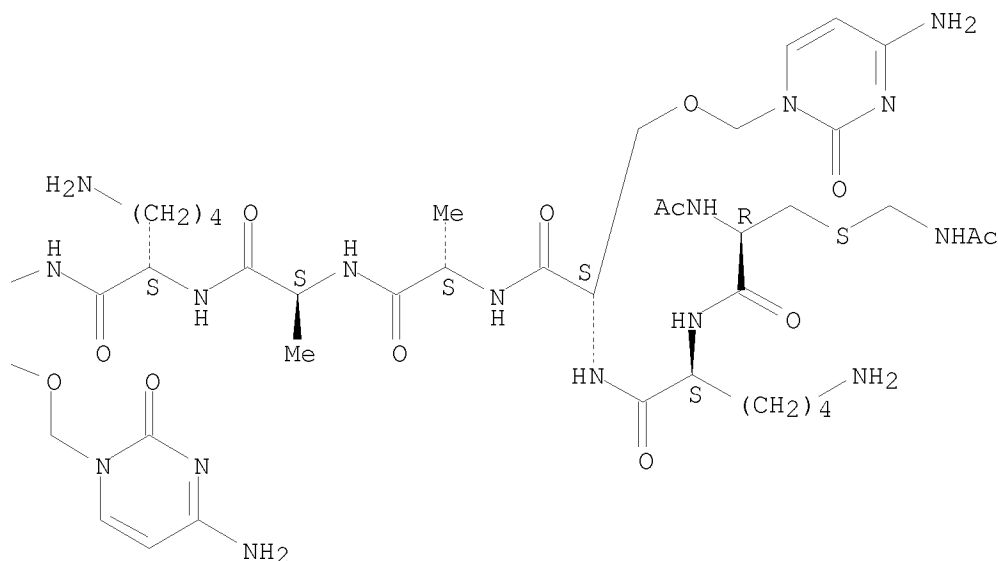
Absolute stereochemistry.



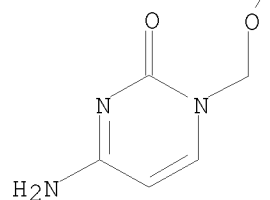
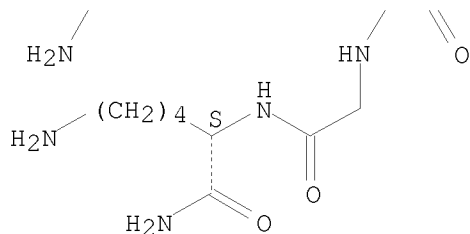
PAGE 1-B



PAGE 1-C



PAGE 2-A



RN 268568-88-3 CAPLUS
 CN DNA, d(T-A-A-A-G-G-G-G-G-A-A-A-T), compd. with
 N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl-L-lysineamide (9CI) (CA INDEX NAME)

CM 1

CRN 268198-01-2

CMF Unspecified

CCI MAN

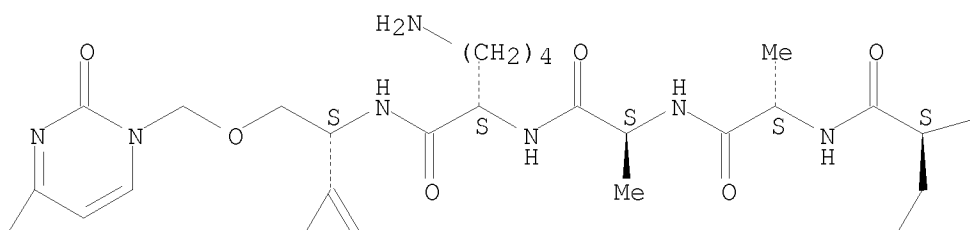
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

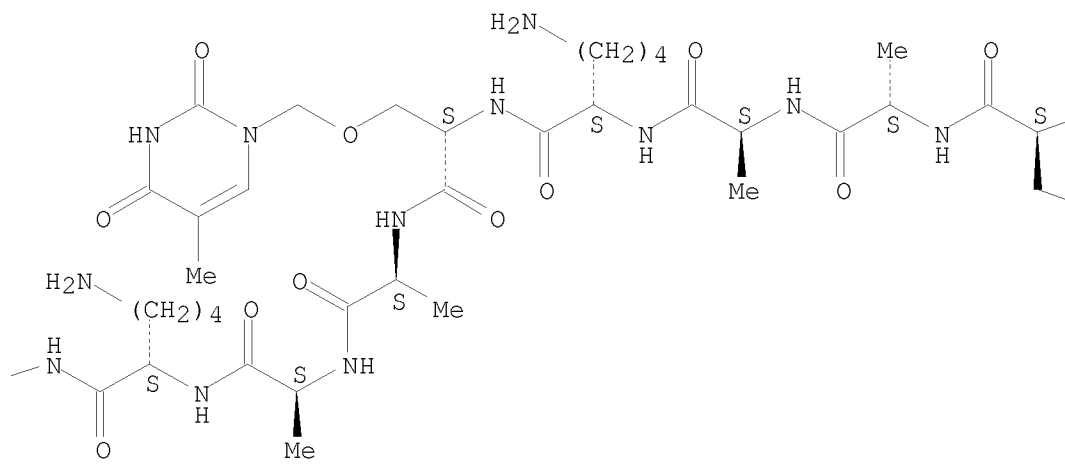
CRN 267241-34-9
CMF C111 H181 N43 O34 S

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



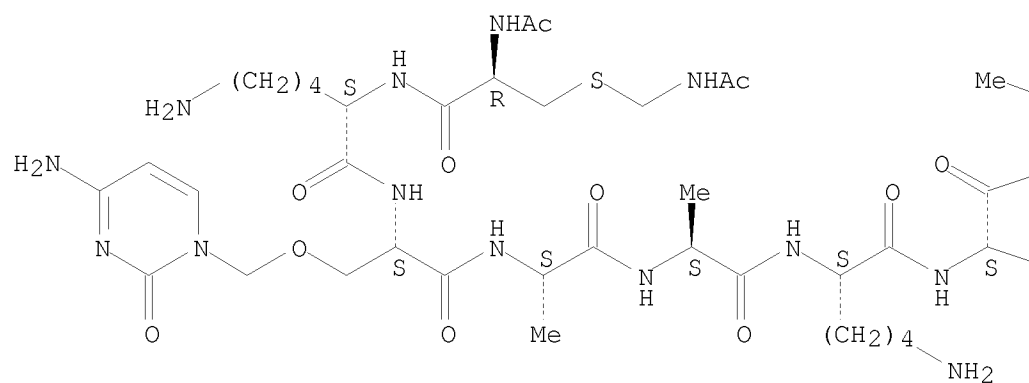
CM 2

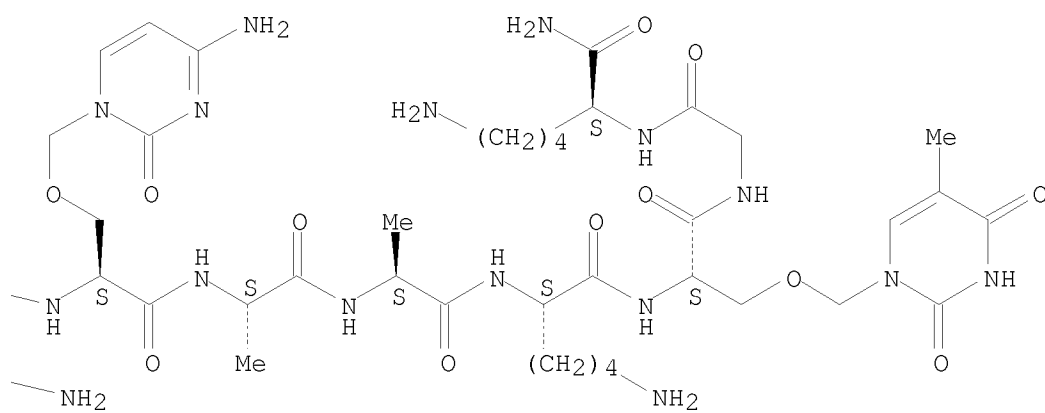
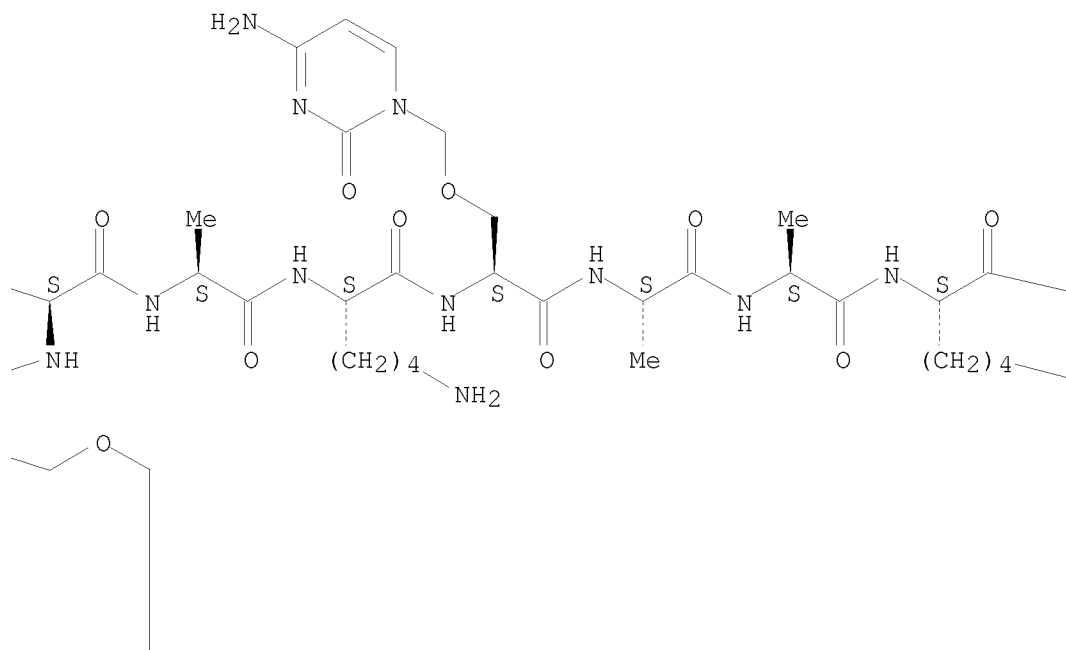
CRN 267241-35-0

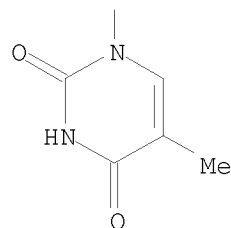
CMF C112 H182 N42 O35 S

Absolute stereochemistry.

PAGE 1-A







RN 268568-90-7 CAPLUS
 CN DNA, d(A-A-A-G-A-G-G-A-A-A), compd. with
 N-acetyl-S-[(acetylamino)methyl]-L-cysteiny-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl-L-lysineamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 268197-98-4
 CMF Unspecified
 CCI MAN

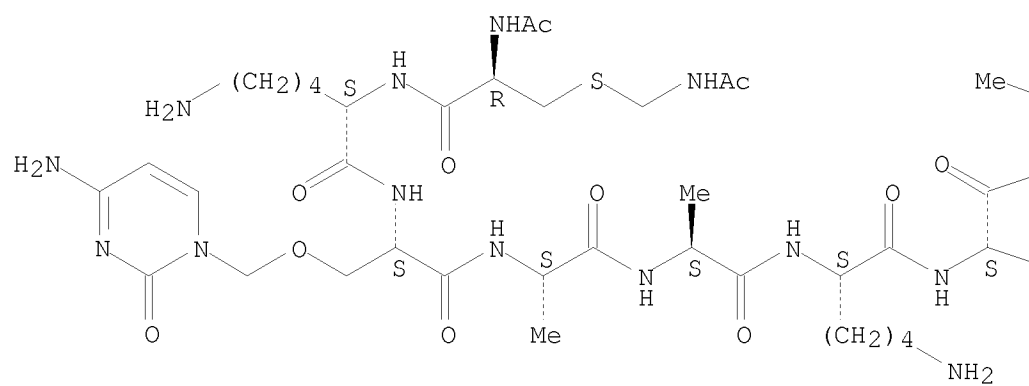
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

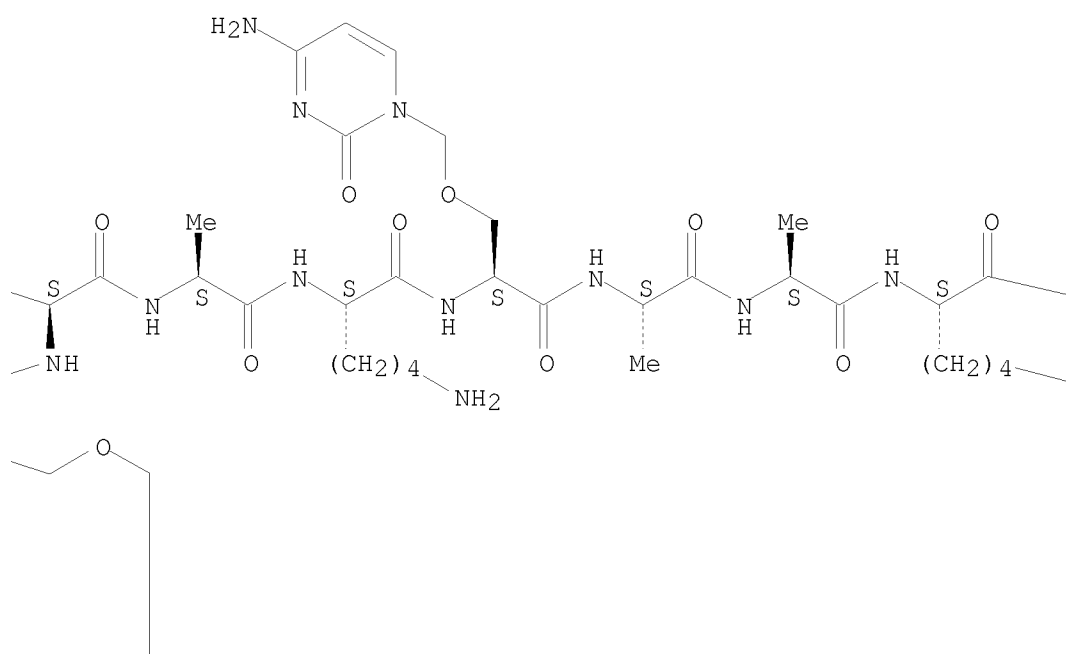
CRN 267241-35-0
 CMF C112 H182 N42 O35 S

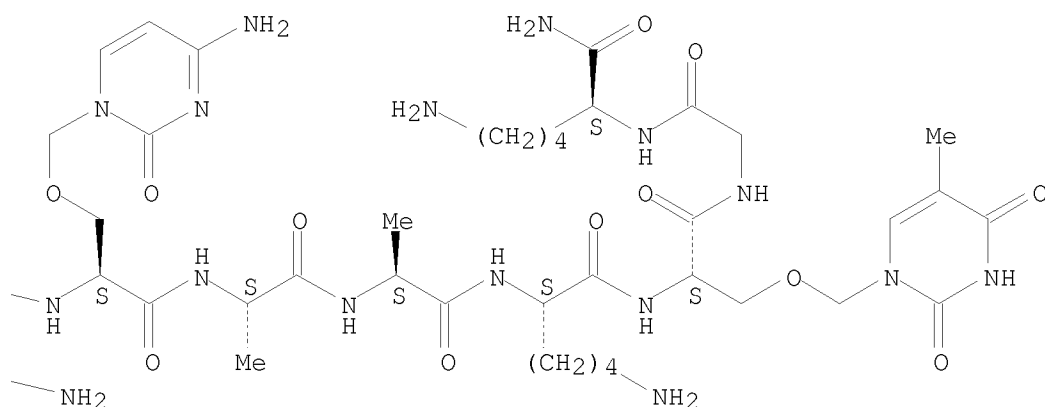
Absolute stereochemistry.

PAGE 1-A

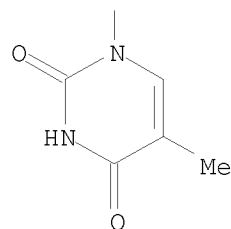


PAGE 1-B



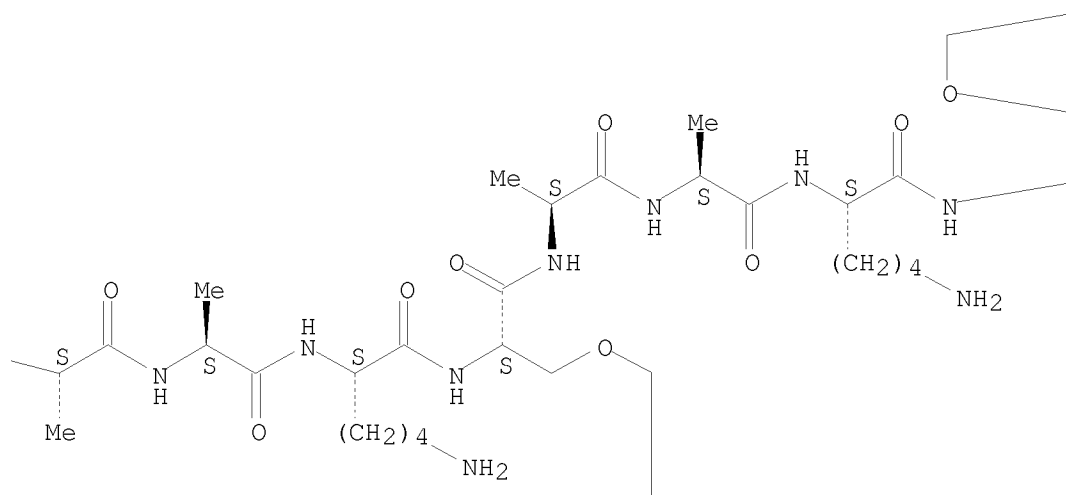
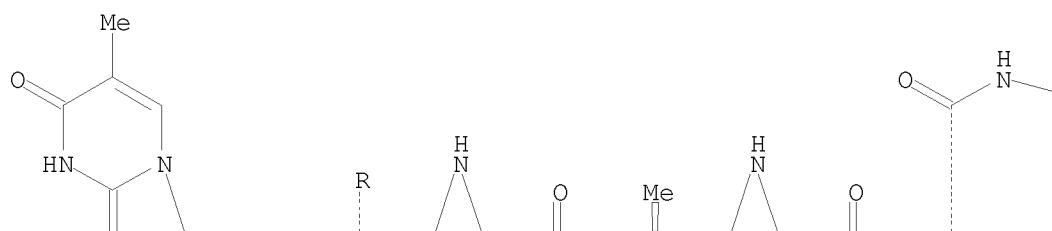


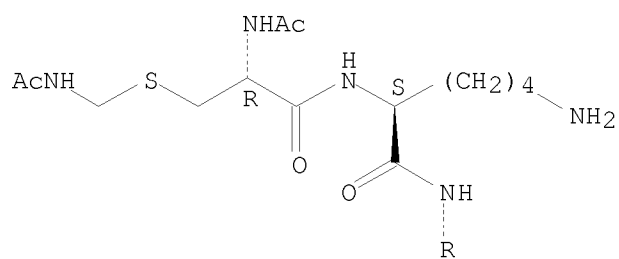
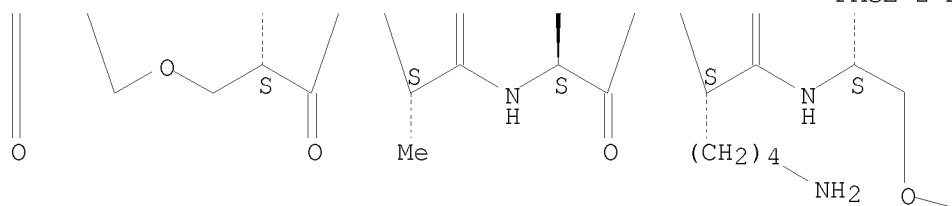
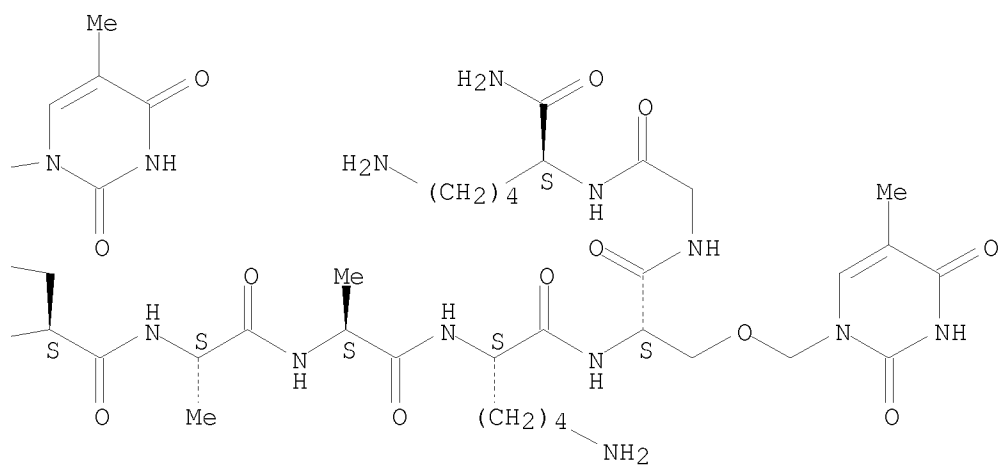
PAGE 2-B

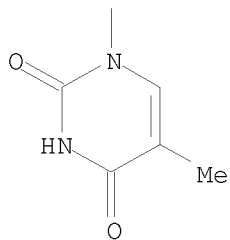
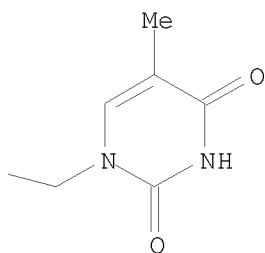


IT	267241-31-6P 267241-34-9P 267241-35-0P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hybridization of DNA by α-helical peptide nucleic acids)
RN	267241-31-6 CAPLUS
CN	L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



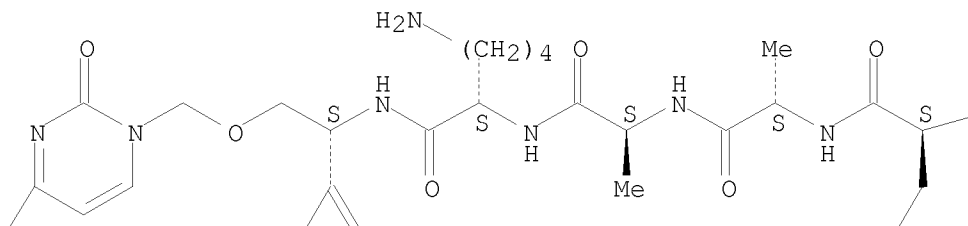


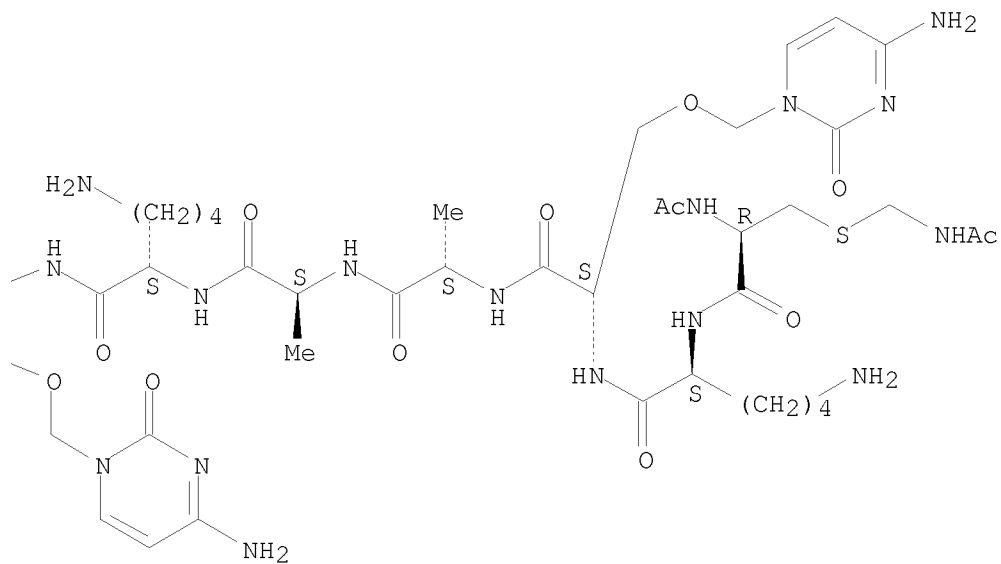
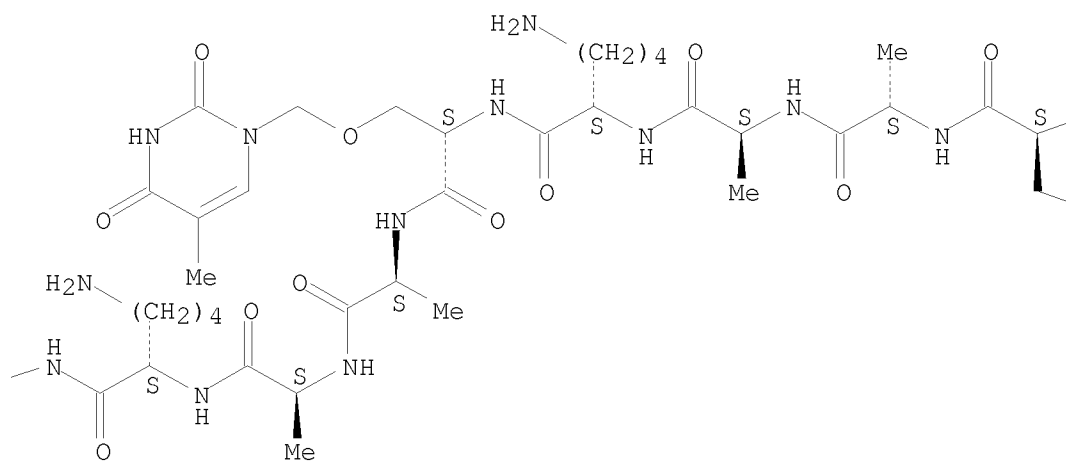


RN 267241-34-9 CAPLUS

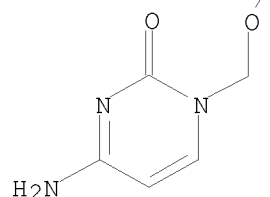
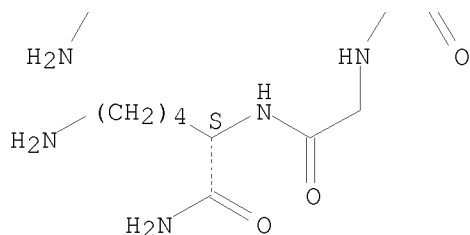
CN L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





PAGE 2-A

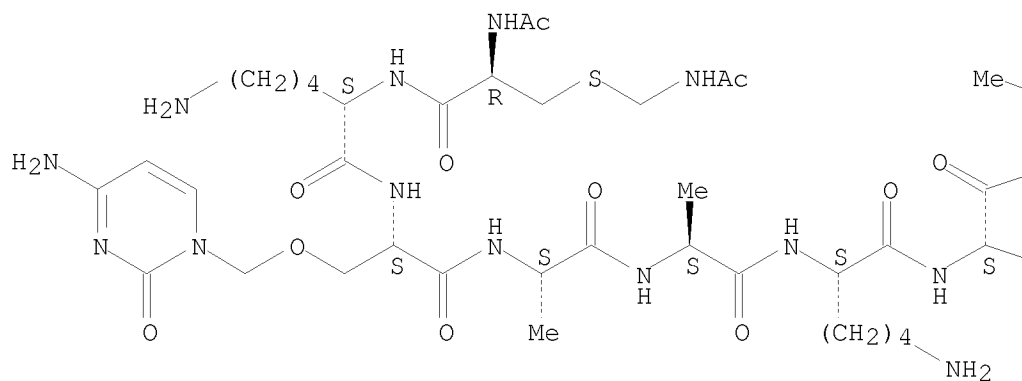


RN 267241-35-0 CAPLUS

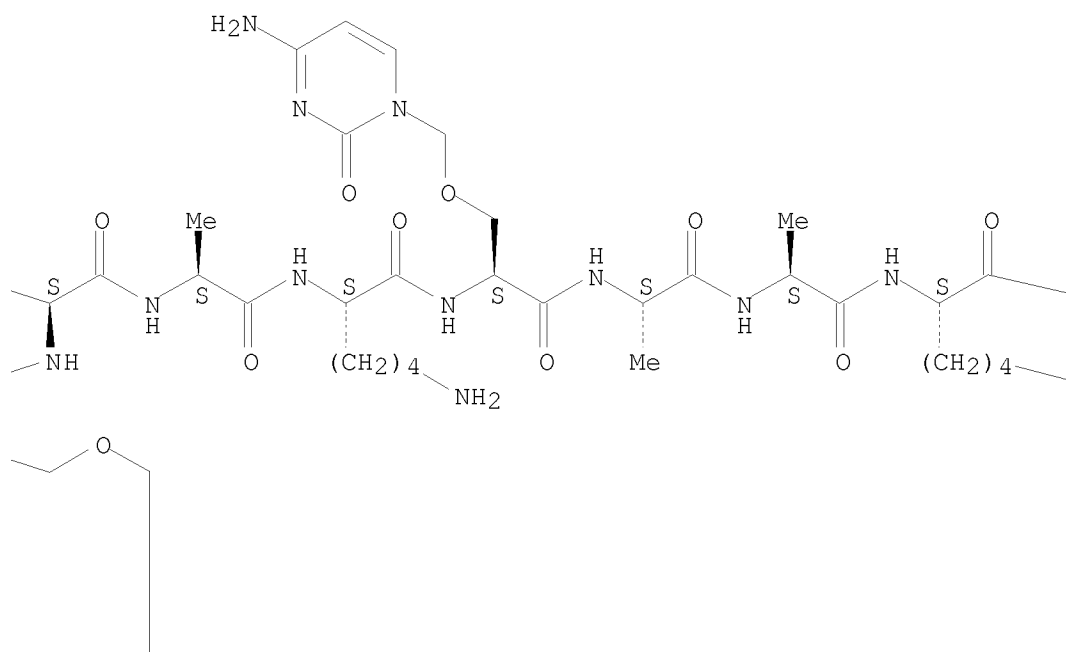
CN L-Lysinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(4-amino-2-oxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-serylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

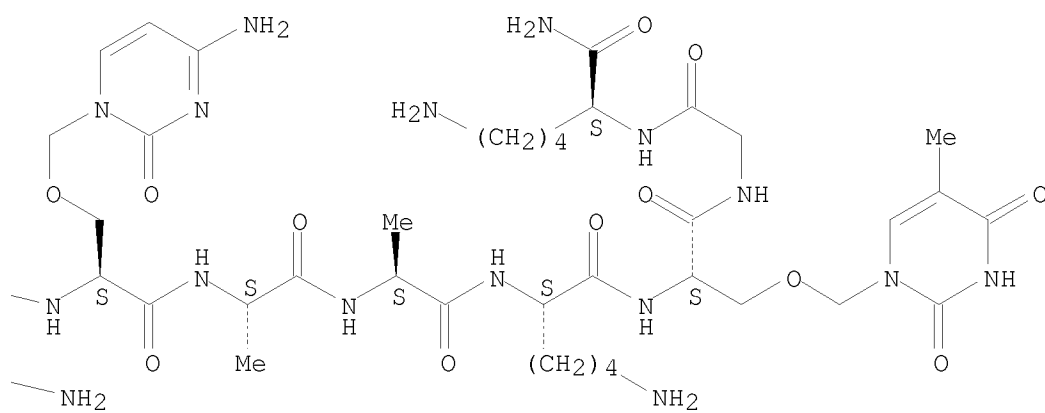
PAGE 1-A

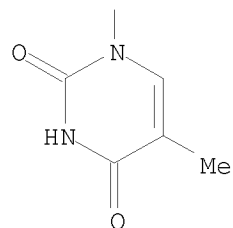


PAGE 1-B



PAGE 1-C

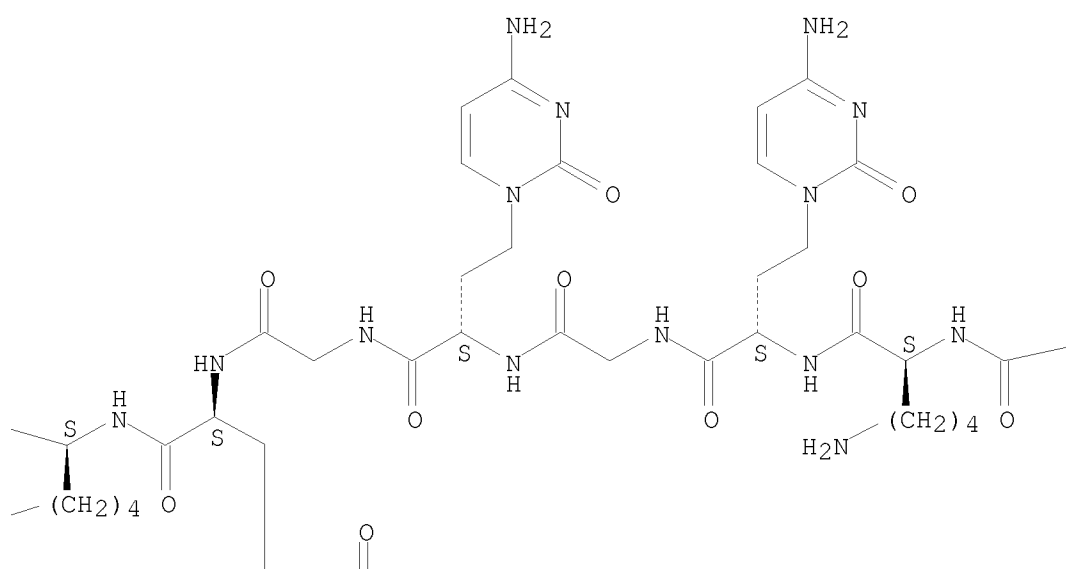
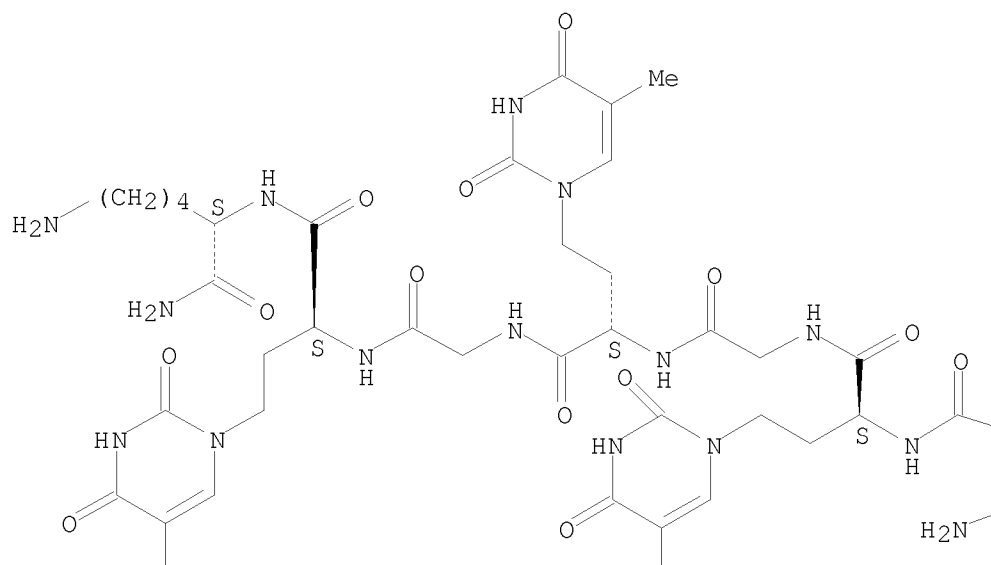


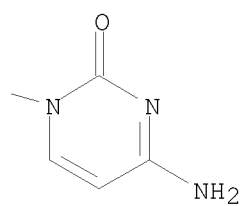
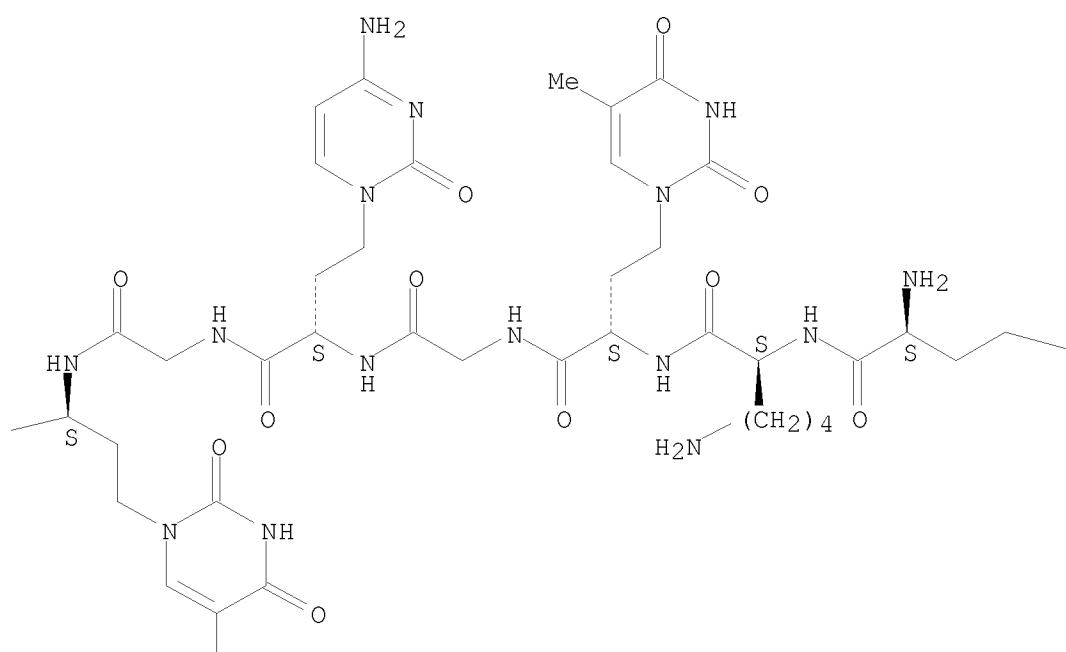


OSC.G	21	THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
RE.CNT	16	THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

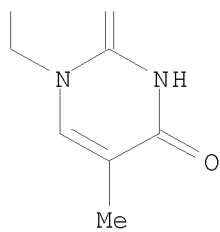
L11 ANSWER 55 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2000:59662 CAPLUS
 DN 132:293990
 TI α -PNA: A novel peptide nucleic acid analogue of DNA. [Erratum to document cited in CA127:220967]
 AU Howarth, Nicola M.; Wakelin, Laurence P. G.
 CS Cancer Drug Discovery, Dep. Chem., Univ. Coll. Dublin, Dublin, Ire.
 SO Journal of Organic Chemistry (2000), 65(2), 634
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 AB On page 5442, the paragraph should read: "During the course of our work, Lenzi et al.^{21,22} presented a preliminary report on the preparation of an α -PNA in which the base-amino acids are derived from L-glutamic acid.²¹ This results in an α -PNA of identical chirality (i.e., L-) to that described here.
 IT 194920-19-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of novel backbone-attached peptide nucleic acid building blocks (Erratum))
 RN 194920-19-9 CAPLUS
 CN L-Lysinamide, (α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





PAGE 2-B



PAGE 2-C



RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 56 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:53602 CAPLUS

DN 132:108299

TI Preparation of precursors for PNA monomers

IN Martens, Jurgen; Maison, Wolfgang; Schlemminger, Imre; Westerhoff, Ole; Groger, Harald

PA Germany

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000002864	A1	20000120	WO 1998-EP4281	19980710
	W: AT, AU, BG, BR, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HR, HU, IL, JP, KR, LU, MK, MX, NO, NZ, PL, PT, RU, SE, SI, TR, US, YU				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9890645	A	20000201	AU 1998-90645	19980710
PRAI	WO 1998-EP4281	A	19980710		

OS MARPAT 132:108299

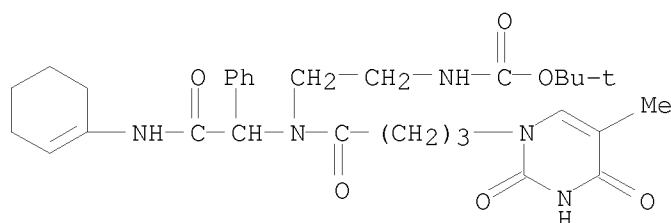
AB Compds. X-CO-E-N(D-Y)CO-A-B [A is a single bond, o-phenylene, or a group (CR₁R₂)_n (n = 1-3, R₁, R₂ = H, OH, amino, F, Cl, Br, iodo, aryl, or alkyl optionally substituted by amino, hydroxy, alkoxy, or alkylthio); B = H, alkyl, nucleobases, aromatic or heterocyclic moieties, DNA intercalators, nucleobase-binding groups, reporter ligands, vinyl, Cl, Br, iodo, OH; D = o-phenylene or CR₃R₄CR₅R₆ (R₃, R₄, R₅, R₆ = H, alkyl, or aryl optionally substituted by alkyl, OH, alkoxy, nitro, aryl, alkoxycarbonyl, halo, or carbohydrate moieties or R₃ and R₅ or R₃ and R₄ taken together complete an alicyclic system); E is CR₇R₈ (R₇, R₈ = H, alkyl, or aryl optionally substituted by alkyl, OH, alkoxy, nitro, aryl, alkoxycarbonyl, halo, or carbohydrate moieties or R₇ and R₈ taken together complete an alicyclic or heterocyclic system which may be substituted by alkyl, OH, alkoxy, nitro, aryl, alkoxycarbonyl, or halo groups); X is R₁₀R₁₁:CR₉NH (R₉, R₁₀, R₁₁ = H, alkyl, or aryl or R₉ and R₁₀ taken together with the vinyl group complete a five- or six-membered alicyclic system or a heteroarom. system, each of which may be substituted); Y is NR₁₂R₁₃ (R₁₂, R₁₃ = H, an amino protecting group, OR₁₄ or SR₁₄, where R₁₄ is H or a protecting group)] were prepared as precursors for PNA monomers. Thus, 1-cyclohexenyl isocyanide was added to a stirred mixture of mono-Boc-ethylenediamine (Boc = tert-butoxycarbonyl), 4-nitrobenzaldehyde, and N₄-Z-N-1-carboxymethylcytosine (Z = benzyloxycarbonyl) in methanol and the mixture heated for five minutes to reflux and stirred for 48 h at room temperature

to afford 36% rac-2-[(2'-Boc-aminoethyl)-N₄-Z-cytosineacetyl-amino]-p-nitrophenylacetic acid cyclohexen-1''-ylamide.

IT 255736-60-8P 255736-68-6P 255736-77-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of precursors for PNA monomers)

RN 255736-60-8 CAPLUS

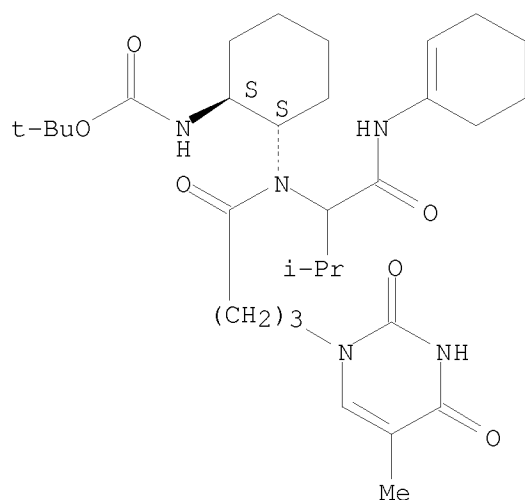
CN Carbamic acid, [2-[[2-(1-cyclohexen-1-ylamino)-2-oxo-1-phenylethyl][4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-1-oxobutyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 255736-68-6 CAPLUS

CN Carbamic acid, [(1R,2R)-2-[[1-[(1-cyclohexen-1-ylamino)carbonyl]-2-methylpropyl][4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-1-oxobutyl]amino]cyclohexyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

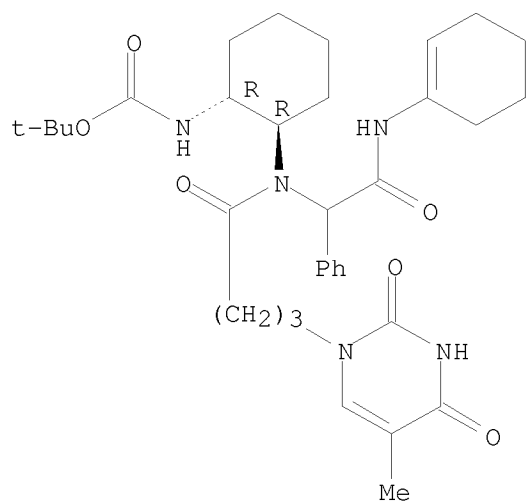
Relative stereochemistry.



RN 255736-77-7 CAPLUS

CN Carbamic acid, [(1R,2R)-2-[[2-(1-cyclohexen-1-ylamino)-2-oxo-1-phenylethyl][4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-1-oxobutyl]amino]cyclohexyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 57 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1999:670140 CAPLUS

DN 131:286820

TI Preparation of oligonucleotide analogs having an amino acid or a modified amino alcohol residue

IN Ramasamy, Kandasamy; Seifert, Wilfried E.

PA ICN Pharmaceuticals, Inc., USA

SO U.S., 65 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5969135	A	19991019	US 1995-551947	19951102
PRAI	US 1995-551947		19951102		

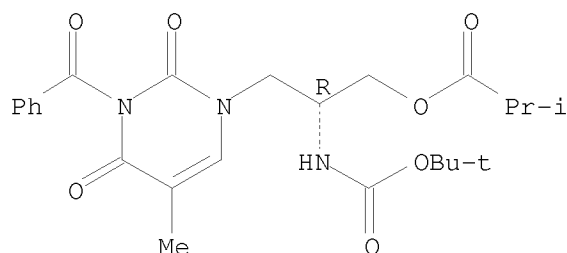
AB The compds. of the invention are oligonucleotide analogs in which the furanose ring of a naturally occurring nucleic acid is replaced with an amino acid or a modified amino alc. residue. The synthesis of monomeric precursors of the oligonucleotide analogs of the invention is described. Thus, 1-O-(4,4'-dimethoxytrityl)-2-[(thyminylacetyl)amino]-L-propan-3-O-N,N-diisopropyl-β-cyanoethylphosphoramidite was prepared from L-serine Me ester, thymineacetic acid, and 2-cyanoethyl-N,N-diisopropylchlorophosphoramidite. Oligonucleotides containing modified amino acid nucleic acid backbones were synthesized on an automated DNA synthesizer using standard phosphoramidite chemical. The ability of the amino acid modified oligonucleotides to hybridize to their complementary RNA and DNA sequences is determined by thermal melting anal.

IT 179472-14-1P 179472-15-2P 179472-16-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of oligonucleotide analogs having amino acid or modified amino alc. residue)

RN 179472-14-1 CAPLUS

CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propyl ester (CA INDEX NAME)

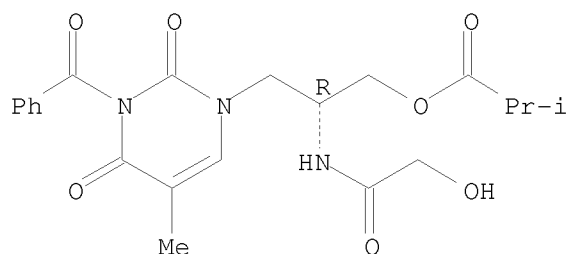
Absolute stereochemistry.



RN 179472-15-2 CAPLUS

CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[(hydroxyacetyl)amino]propyl ester (9CI) (CA INDEX NAME)

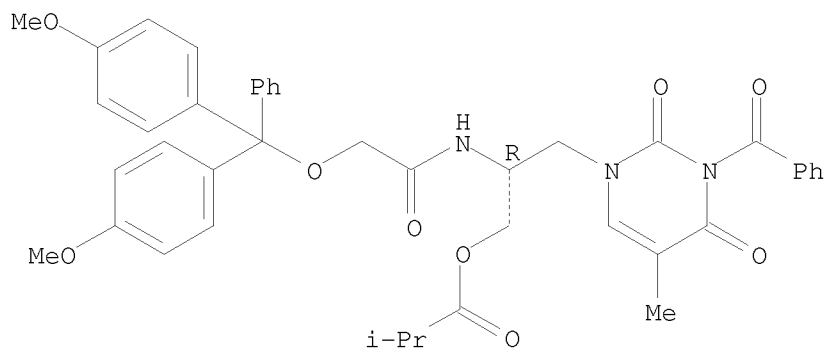
Absolute stereochemistry.



RN 179472-16-3 CAPLUS

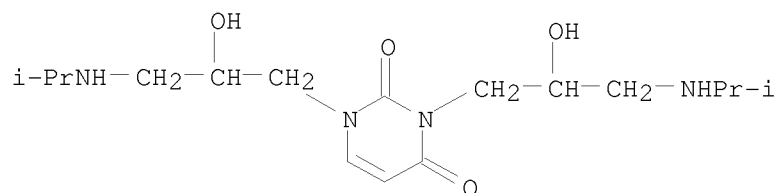
CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidin-2-yl)-2-[[[bis(4-methoxyphenyl)phenylmethoxy]acetyl]amino]propyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

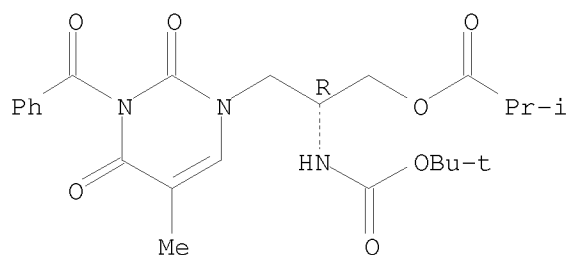
L11 ANSWER 58 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:593856 CAPLUS
 DN 131:299642
 TI Synthesis and biological evaluation of the novel purine and pyrimidine nucleoside analogues containing 2,3-epoxypropyl, 3-amino-2-hydroxypropyl or 2,3-epoxypropyl ether moieties
 AU Raic-Malic, Silvana; Grdisa, Mira; Pavelic, Kresimir; Mintas, Mladen
 CS Department of Organic Chemistry, Faculty of Chemical Engineering and Technology, Zagreb, HR-10000, Croatia
 SO European Journal of Medicinal Chemistry (1999), 34(5), 405-413
 CODEN: EJMCA5; ISSN: 0223-5234
 PB Editions Scientifiques et Medicales Elsevier
 DT Journal
 LA English
 AB The novel purine and pyrimidine nucleoside analogs possessing a 2,3-epoxypropyl, 2,3-epoxypropyl ether, or 3-amino-2-hydroxypropyl, e. g. I, moiety bonded at either N-9 of the C-6 substituted purine ring or N-1 and N-3 of the pyrimidine ring, were prepared and evaluated on their antitumor and antiviral activities.
 IT 247092-22-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and antitumor and antiviral activities of nucleosides containing 2,3-epoxypropyl, 3-amino-2-hydroxypropyl or 2,3-epoxypropyl ether moieties)
 RN 247092-22-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1,3-bis[2-hydroxy-3-[(1-methylethyl)amino]propyl]- (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

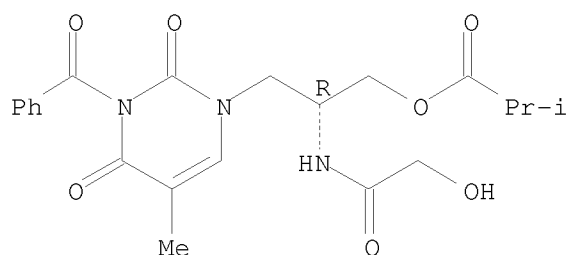
L11 ANSWER 59 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:508690 CAPLUS
 DN 131:351614
 TI Synthesis and biophysical studies of modified oligonucleotides containing
 acyclic amino alcohol nucleoside analogs
 AU Ramasamy, Kanda S.; Stoisavljevic, Vesna
 CS Research Division, ICN Pharmaceuticals, Inc., Costa Mesa, CA, 92626, USA
 SO Nucleosides & Nucleotides (1999), 18(8), 1845-1861
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Marcel Dekker, Inc.
 DT Journal
 LA English
 OS CASREACT 131:351614
 AB Novel serine derivative of thymine was prepared and incorporated into
 oligonucleotides. These modified oligonucleotides were studied for their
 binding affinity with complementary DNA/RNA.
 IT 179472-14-1P 179472-15-2P 179472-16-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis and enzymic resistance of modified oligonucleotides containing
 acyclic amino alc. nucleoside analogs)
 RN 179472-14-1 CAPLUS
 CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-
 dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propyl
 ester (CA INDEX NAME)

Absolute stereochemistry.



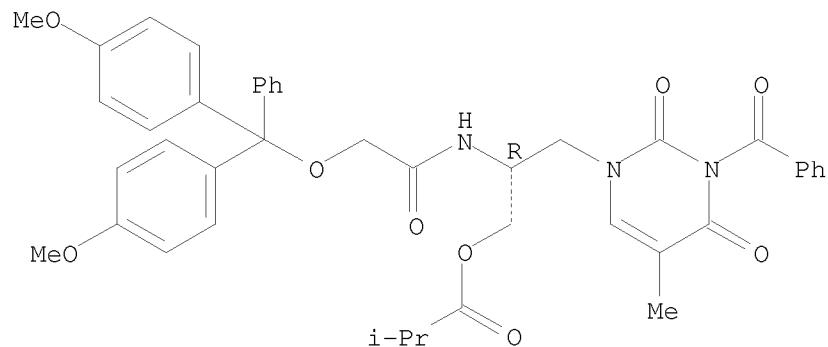
RN 179472-15-2 CAPLUS
 CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-
 dioxo-1(2H)-pyrimidinyl)-2-[(hydroxyacetyl)amino]propyl ester (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



RN 179472-16-3 CAPLUS
 CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[[bis(4-methoxyphenyl)phenylmethoxy]acetyl]amino]propyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

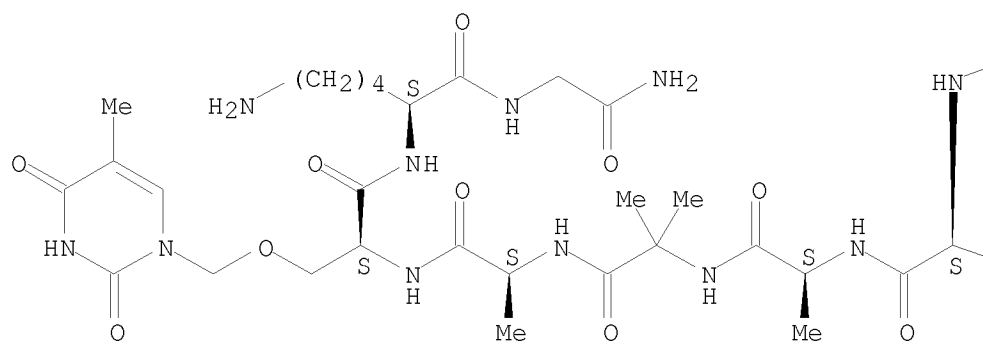


OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
 RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

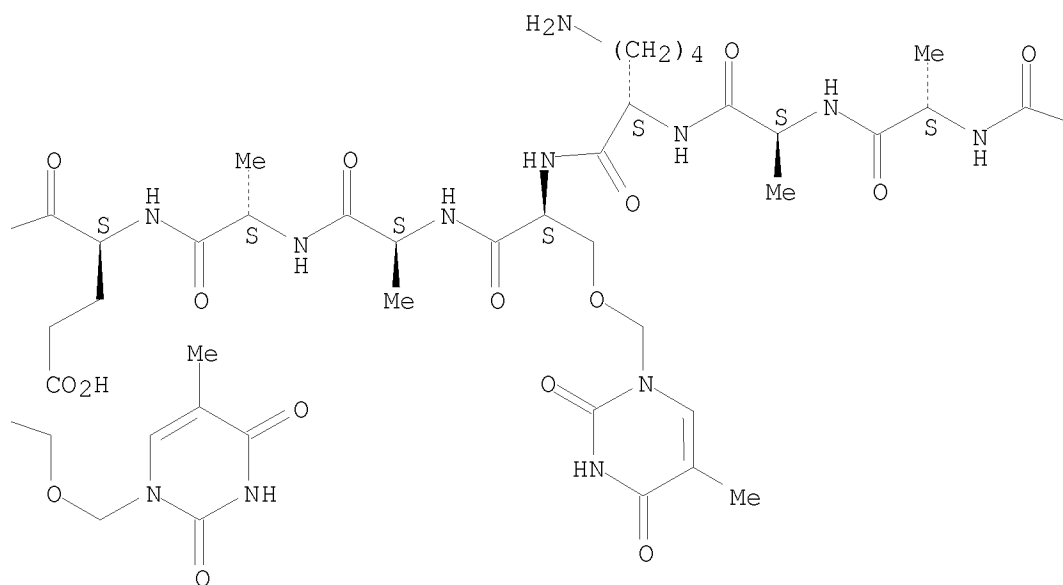
L11 ANSWER 60 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:376918 CAPLUS
 DN 131:157957
 TI Modular Nucleic Acid Surrogates. Solid Phase Synthesis of α -Helical Peptide Nucleic Acids (α PNAs)
 AU Garner, Philip; Dey, Subhakar; Huang, Yumei; Zhang, Xiao
 CS Department of Chemistry, Case Western Reserve University, Cleveland, OH, 44106-7078, USA
 SO Organic Letters (1999), 1(3), 403-405
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 AB The synthesis and characterization of prototype α -helical peptide nucleic acid (α PNA) modules, e.g.,
 Ac-C(Acm)-G-ST-D-A-E-ST-A-A-K-ST-A-A-E-ST-A-Aib-A-ST-K-G-NH₂ [1; Acm = acetamidomethyl, ST = 1-[(Ser)methyl]thymine residue, Aib = 2-aminoisobutyric acid residue] as well as disulfide dimers are reported. These mols. combine an α -helical peptidyl scaffold with well-defined nucleobase mol. recognition patterns and could serve as a basis for novel antisense and/or antigene agents. Structure assignments for these α PNAs were supported by MALDI-TOF mass spectrometry, and the α -helical nature of 1 dimer in water was confirmed by CD spectroscopy.
 IT 236755-57-0P 236755-58-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (solid phase synthesis of α -helical peptide nucleic acids)
 RN 236755-57-0 CAPLUS
 CN Glycinamide, N-acetyl-S-[(acetylamino)methyl]-L-cysteinylglycyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L- α -aspartyl-L-alanyl-L- α -glutamyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-2-methylalanyl-L-alanyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-lysyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

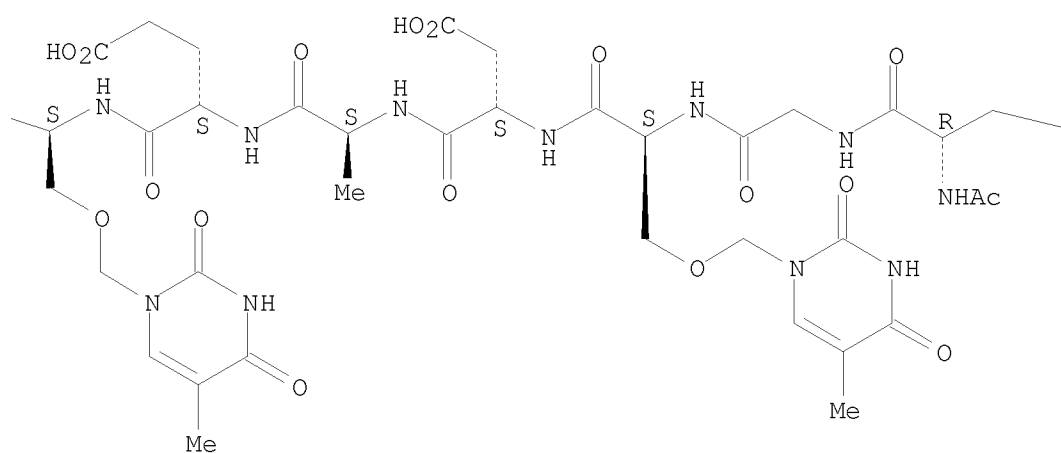
PAGE 1-A



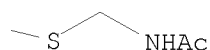
PAGE 1-B



PAGE 1-C



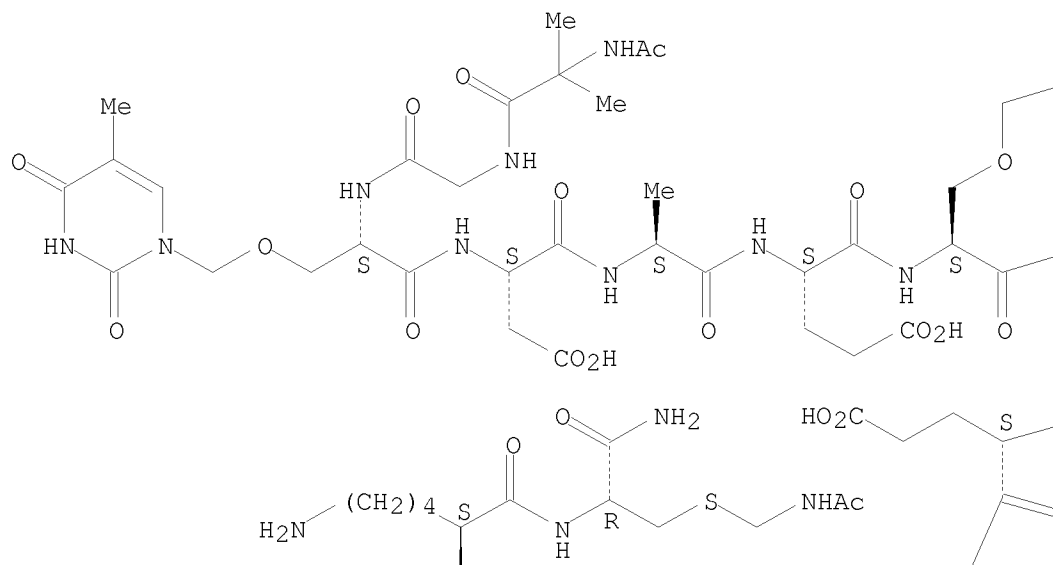
PAGE 1-D



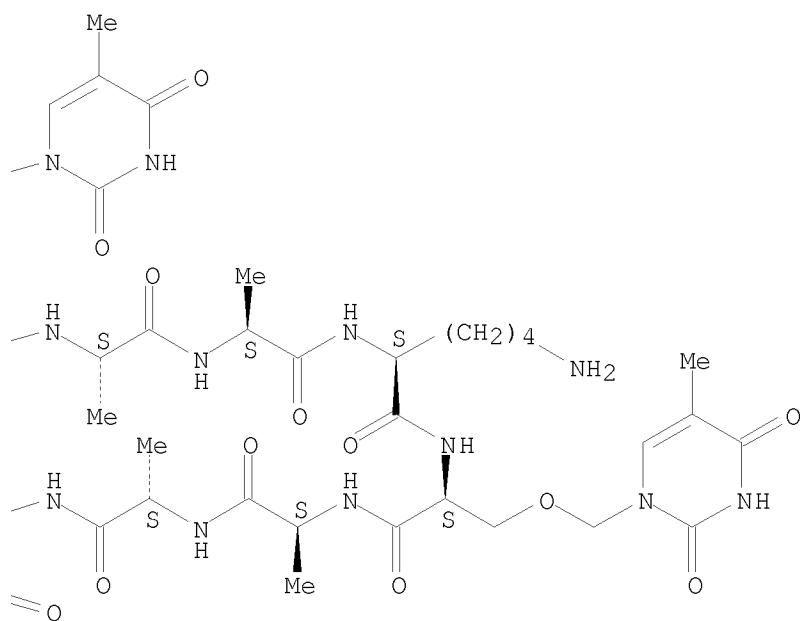
RN 236755-58-1 CAPLUS
 CN L-Cysteinamide, N-acetyl-2-methylalanylglycyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L- α -aspartyl-L-alanyl-L- α -glutamyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L-lysyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-L-alanyl-L- α -glutamyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-alanyl-2-methylalanyl-L-alanyl-O-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]-L-seryl-L-lysyl-S-[(acetylamino)methyl]- (9CI) (CA INDEX NAME)

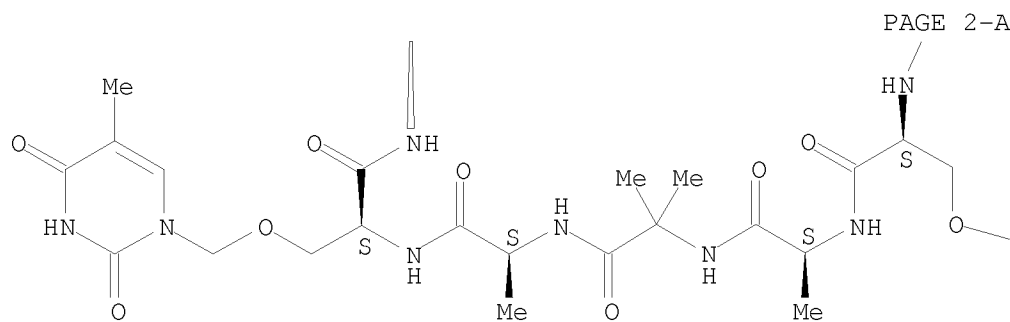
Absolute stereochemistry.

PAGE 1-A

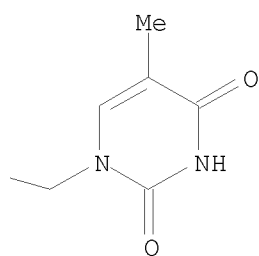


PAGE 1-B





PAGE 2-B



OSC.G	15	THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
RE.CNT	44	THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L11 ANSWER 61 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1999:205354 CAPLUS

DN 130:237811

TI Preparation of ethylene glycol phosphate linked oligodeoxyribonucleotides as phospholipase A2 inhibitors

IN Cook, Phillip Dan; Acevedo, Oscar L.; Davis, Peter W.; Ecker, David J.; Hebert, Normand

PA ISIS Pharmaceuticals, Inc., USA

SO U.S., 39 pp., Cont.-in-part of U.S. Ser. No. 179,970.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5886177	A	19990323	US 1996-669506	19960808
	US 6448373	B1	20020910	US 1994-179970	19940111
	WO 9518820	A1	19950713	WO 1995-US449	19950111

W: CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRAI US 1994-179970 A2 19940111

WO 1995-US449 W 19950111

AB Novel ethylene glycol compds. I wherein; X is H, a phosphate group, phosphite group, a solid support, an oligodeoxyribonucleotide; Y is H, a hydroxyl protecting group, an oligodeoxyribonucleotide; E is O or S; EE is OH or amine; Q is alkyl, alkynyl, alkenyl, carbocycloalkyl, heterocycle; Z is alkyl, alkenyl, alkynyl, aminoalkyl, aryl, aralkyl; m is 0, 1; n is 1-50; j is 1-6, are used to prepare oligodeoxyribonucleotides. The ethylene glycol monomers can be joined via standard phosphate linkages including phosphorothioate, phosphodiester, and phosphoramidate linkages. Useful functional groups include nucleobases as well as polar groups, hydrophobic groups, ionic groups, aromatic groups and/or groups that participate in hydrogen-bonding. Thus, 1-[1-(N4-Benzoyl)cytosine]-3-O-dimethoxytrityl-2-O-[(N,N-diisopropylamino)-2-cyanoethoxyphosphite]propane was prepared and used in synthesis of ethylene glycol phosphate linked oligodeoxyribonucleotides as phospholipase A2 inhibitors.

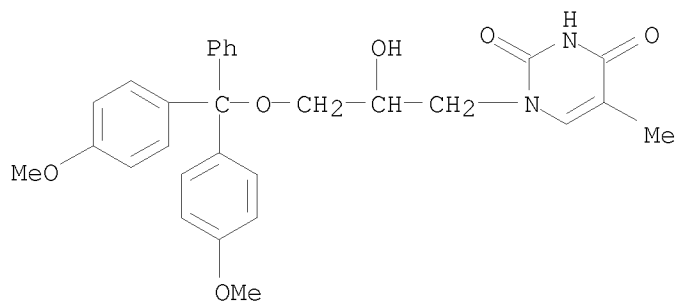
IT 171406-23-8P 171406-29-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of ethylene glycol phosphate linked oligodeoxyribonucleotides as phospholipase A2 inhibitors)

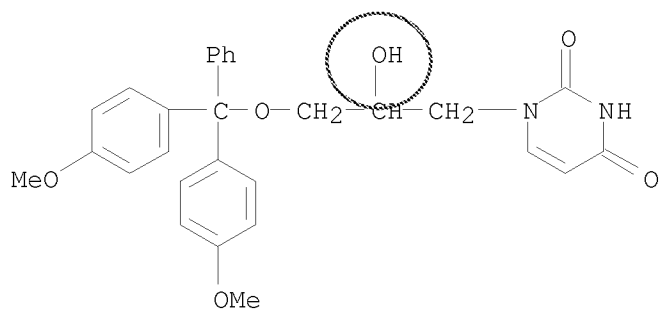
RN 171406-23-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)



RN 171406-29-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]- (CA INDEX NAME)

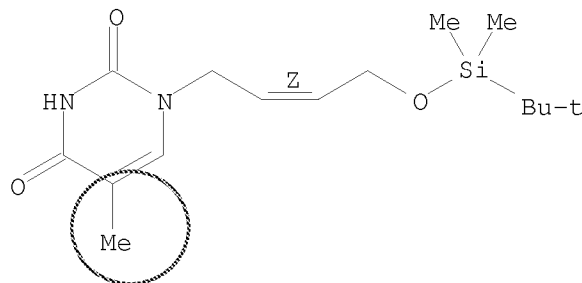


R10 is not OH in claim 14

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

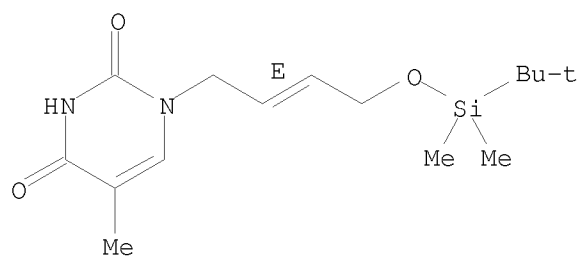
L11 ANSWER 62 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1998:360381 CAPLUS
 DN 129:108928
 OREF 129:22384h,22385a
 TI Synthesis and anti-HIV-1 activity of hydroxybutenyl C6-thiophenyl thymine nucleoside analogs
 AU Zhou, Ziaoxin; Rajaratnam, Ragine; Phadtare, Shashi
 CS College of Pharmacy, Xavier University of Louisiana, New Orleans, LA, 70125, USA
 SO Pharmacy and Pharmacology Communications (1998), 4(5), 237-240
 CODEN: PPCOFN; ISSN: 1460-8081
 PB Royal Pharmaceutical Society of Great Britain
 DT Journal
 LA English
 OS CASREACT 129:108928
 AB New acyclic hydroxybutenyl C6-thiophenyl thymine nucleoside analogs of 1-[(2-hydroxyethoxy)methyl]6-(phenylthio)thymine (HEPT), have been designed, synthesized and tested as potential anti-HIV-1 agents in ATH8 cell lines. The hydroxybutenyl C6-thiophenyl thymine compds. were prepared by alkylation of thymine with cis- or trans-1,4-dichlorobutene to give chloro compds. which were then hydrolyzed to give alcs. After protecting the 4'-hydroxy with t-butyldimethylsilyl, the resultant compds. were selectively reacted with lithium diisopropylamine and treated with diphenylsulfide to give C6-thiophenyl analogs. The C6-thiophenyl thymine nucleoside analogs were isolated by hydrolysis. All chloro and hydroxy compds. were tested for percentage cell viability in HIV-1-infected ATH8 cell line and were found to be moderately effective when compared with azidothymidine. Unsubstituted thymine alcs. showed 40-55% cell viability at 0.5 μ M concns. compared with 15-18% for C6-thiophenyl-substituted thymine alcs.
 IT 210053-30-8P 210053-35-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and anti-HIV-1 activity of hydroxybutenyl C6-thiophenyl thymine nucleoside analogs)
 RN 210053-30-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2Z)-4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-buten-1-yl]-5-methyl- (CA INDEX NAME)

Double bond geometry as shown.



RN 210053-35-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2E)-4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-buten-1-yl]-5-methyl- (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 63 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:329100 CAPLUS

DN 129:54525

OREF 129:11369a,11372a

TI Heterocyclic nucleoside analogs by cycloaddition reactions of
1-vinylthymine with 1,3-dipoles

AU Adams, David R.; Boyd, Alan S. F.; Ferguson, R.; Grierson, David S.;
Monneret, Claude

CS Chemistry Department, Heriot-Watt University, Edinburgh, EH14 4AS, UK

SO Nucleosides & Nucleotides (1998), 17(6), 1053-1075

CODEN: NUNUD5; ISSN: 0732-8311

PB Marcel Dekker, Inc.

DT Journal

LA English

OS CASREACT 129:54525

AB 1,3-Dipolar cycloaddn. of 1-vinylthymine to azides, nitrile oxides,
nitrones and nitronates has been investigated as a route to heterocyclic
nucleoside analogs in which the nucleoside ribose moiety has been replaced
by an alternative heterocycle. Reaction of 1-vinylthymine with highly
reactive nitrile oxides affords 1-(isoxazolin-5-yl)thymine products in
excellent yield at room temperature. The less reactive nitron dipoles undergo
cycloaddn. to 1-vinylthymine at elevated temperature to afford
1-(isoxazolidin-5-yl)thymine cycloadducts in good-to-moderate yields, but
show a tendency to eliminate thymine from the cycloaddn. products over
long reaction times. Azide cycloaddns. to 1-vinylthymine proceed only
under forcing conditions to which the fragile triazoline products are
unstable. Certain compds. were tested for anti-HIV activity and found to
be inactive.

IT 208707-16-8P 208707-17-9P 208707-18-0P

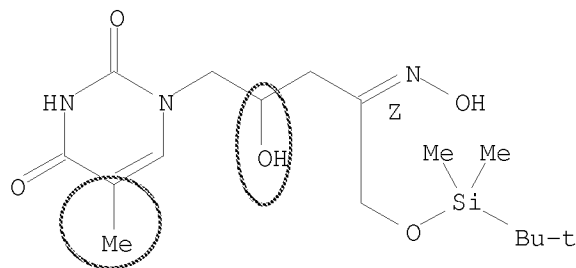
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of heterocyclic nucleoside analogs by cycloaddn. reactions of
vinylthymine with dipoles)

RN 208707-16-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(4Z)-5-[[[(1,1-
dimethylethyl)dimethylsilyl]oxy]-2-hydroxy-4-(hydroxyimino)pentyl]-5-
methyl- (CA INDEX NAME)

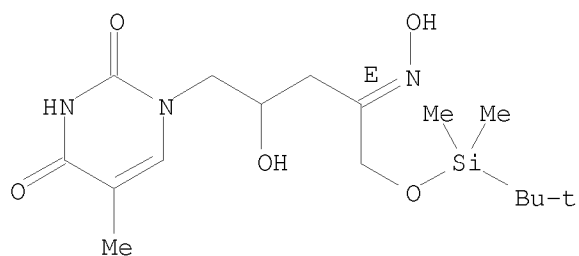
Double bond geometry as shown.



RN 208707-17-9 CAPLUS

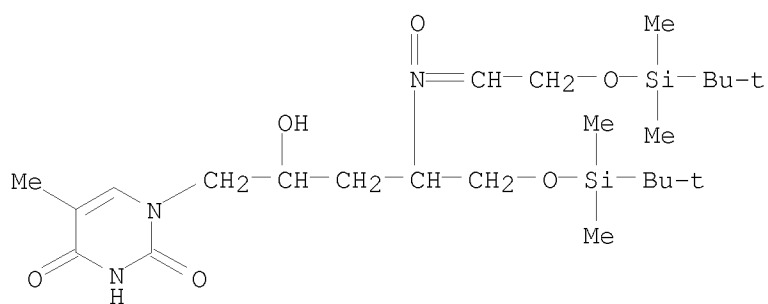
CN 2,4(1H,3H)-Pyrimidinedione, 1-[(4E)-5-[[[(1,1-
dimethylethyl)dimethylsilyl]oxy]-2-hydroxy-4-(hydroxyimino)pentyl]-5-
methyl- (CA INDEX NAME)

Double bond geometry as shown.



RN 208707-18-0 CAPLUS

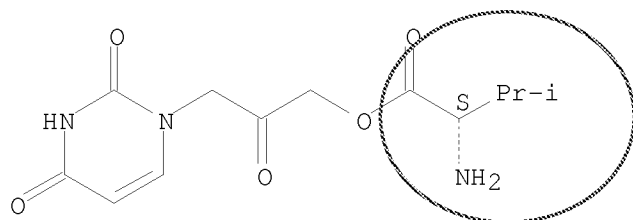
CN Pentitol, 1,3,4-trideoxy-1-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-5-O-[(1,1-dimethylethyl)dimethylsilyl]-4-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethylidene]oxidoamino]- (9CI) (CA INDEX NAME)



OSC.G 34 THERE ARE 34 CAPLUS RECORDS THAT CITE THIS RECORD (34 CITINGS)
 RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 64 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1998:320817 CAPLUS
 DN 129:54561
 OREF 129:11377a,11380a
 TI Synthesis and solution structures of aminoacyl compounds of potential prebiotic significance
 AU Sutherland, John D.; Cook, Stephen D.
 CS The Dyson Perrins Laboratory, Oxford, OX1 3QY, UK
 SO Tetrahedron Letters (1998), 39(20), 3299-3302
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 129:54561
 AB The chemical synthesis and solution structure determination of aminoacylated glycoaldehyde and nucleobase-substituted dihydroxyacetone derivs. H-L-Val-OCH₂COR (R = H, adenin-1-yl, uracil-1-yl) are described.
 IT 208576-26-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and solution structures of valine nucleobase-substituted hydroxyacetone derivative esters)
 RN 208576-26-5 CAPLUS
 CN L-Valine, 3-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-2-oxopropyl ester (CA INDEX NAME)

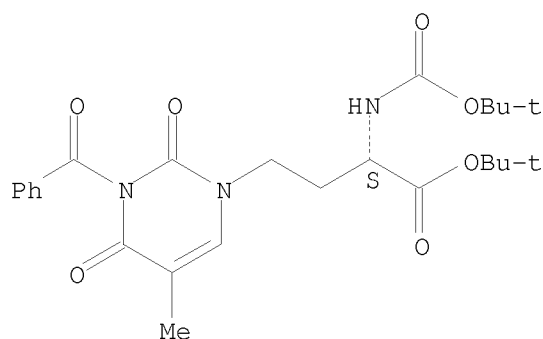
Absolute stereochemistry.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

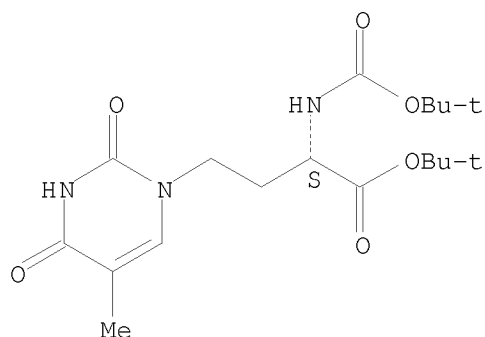
L11 ANSWER 65 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1998:81929 CAPLUS
 DN 128:167695
 OREF 128:33061a,33064a
 TI Design and synthesis of chiral peptidic nucleic acids
 AU Ciapetti, Paola; Mann, Andre; Schoenfelder, Angele; Taddei, Maurizio;
 Trifilieff, Elisabeth; Canet, Isabelle; Canet, Jean Louis
 CS Dep. Chimica, Univ. Sassari, Sassari, I-07100, Italy
 SO Letters in Peptide Science (1997), 4(4/5/6), 341-349
 CODEN: LPSCEM; ISSN: 0929-5666
 PB Kluwer Academic Publishers
 DT Journal
 LA English
 AB Due to the increasing interest in the use of oligonucleotide analogs as antisense and antigene drugs, the authors designed a chiral analog constituted of a peptide frame bearing nucleobases in suitable positions (C-PNA). The authors recently reported the synthesis of four nonnatural α -amino acids with the DNA bases in the lateral chain. In this paper they present an improved synthesis of the 9-fluorenylmethoxycarbonyl (Fmoc) monomers I-IV and their polymerization to polypeptidic oligonucleotide analogs using a modification of the standard protocol for solid phase peptide synthesis.
 IT 168264-02-6P 168264-03-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (design and synthesis of chiral peptide nucleic acids containing homoserine backbones)
 RN 168264-02-6 CAPLUS
 CN 1(2H)-Pyrimidinebutanoic acid, 3-benzoyl- α -[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-5-methyl-2,4-dioxo-, 1,1-dimethylethyl ester, (α S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 168264-03-7 CAPLUS
 CN 1(2H)-Pyrimidinebutanoic acid, α -[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-5-methyl-2,4-dioxo-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

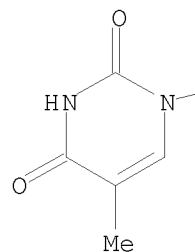
Absolute stereochemistry.

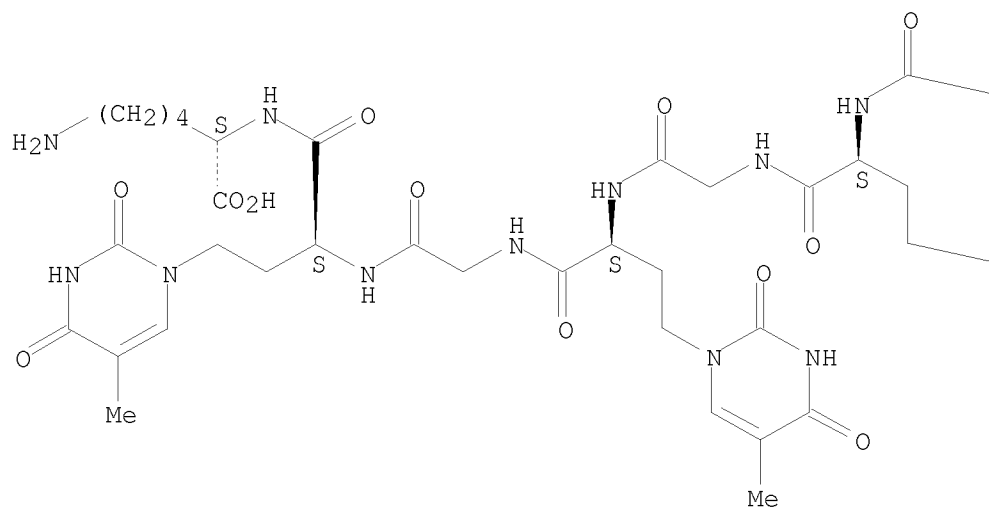
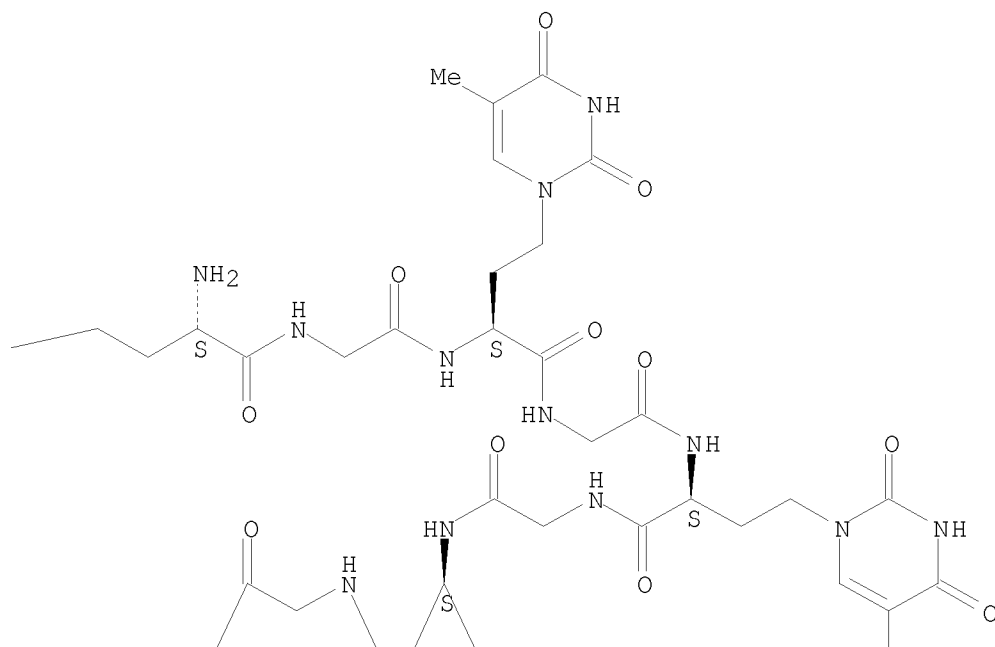


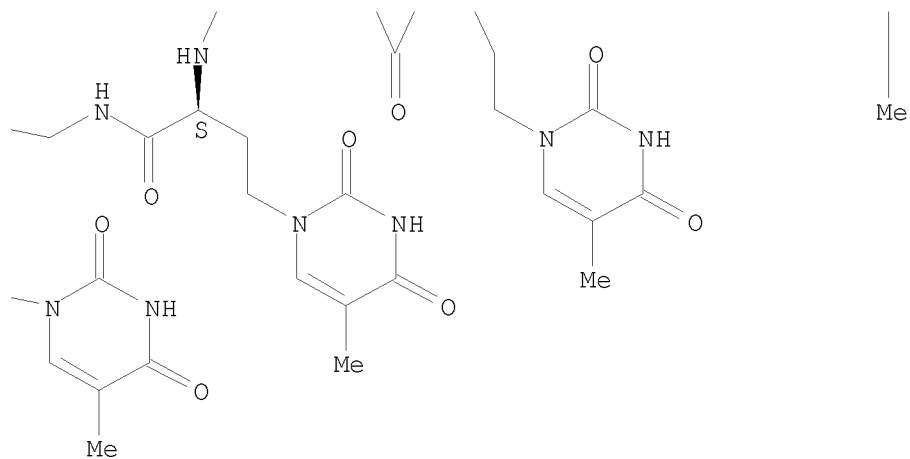
IT 202870-88-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (design and synthesis of chiral peptide nucleic acids containing homoserine
 backbones)
 RN 202870-88-0 CAPLUS
 CN L-Lysine, (α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-
 dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-
 5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-
 3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)-
 α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-
 dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-
 5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-
 3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

PAGE 1-A







OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 66 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:20018 CAPLUS

DN 128:128224

OREF 128:25195a,25198a

TI A cytosine analog containing a conformationally flexible acyclic linker for triplex formation at sites with contiguous G-C base pairs

AU Xiang, Guobing; McLaughlin, Larry W.

CS Department of Chemistry, Merkert Chemistry Center, Boston College, Chestnut Hill, MA, 02167, USA

SO Tetrahedron (1998), 54(3/4), 375-392

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Science Ltd.

DT Journal

LA English

AB Two nucleoside derivs. of the pyrimidine bases, e.g. I, have been prepared with flexible acyclic carbohydrate linkers. A new procedure, beginning with (R)-(-)-2,2-dimethyl-1,3-dioxolane-4-methanol permits the preparation of the stereochem. pure acyclic derivs. of both protected nucleoside analogs without contamination by a problematic rearrangement product. By simply increasing the flexibility of the carbohydrate portion of I nucleoside derivative, 15-mer triplexes containing five contiguous G-C base pairs exhibit

a 7-8 °C increase in T_m value.

IT 124318-82-7P 201732-39-0P 201732-40-3P

201732-41-4P

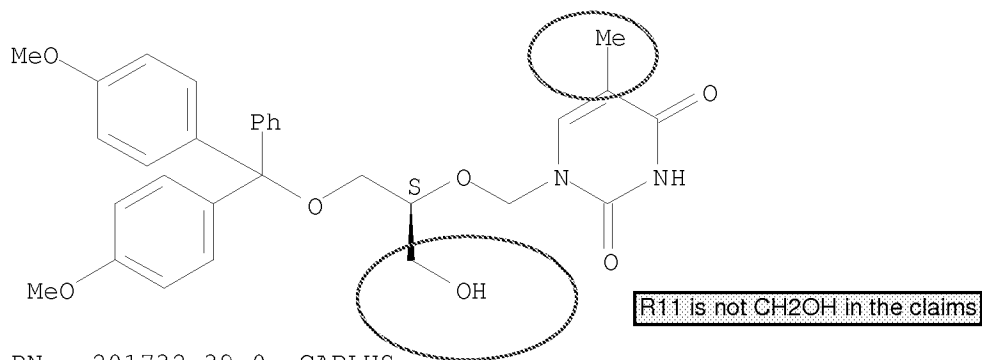
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and thermal stability of acyclic linker cytosine analog-containing DNA)

RN 124318-82-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]-5-methyl- (CA INDEX NAME)

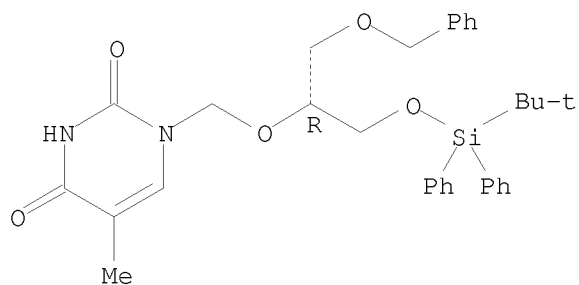
Absolute stereochemistry. Rotation (-).



RN 201732-39-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R)-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-(phenylmethoxy)ethoxy]methyl]-5-methyl- (CA INDEX NAME)

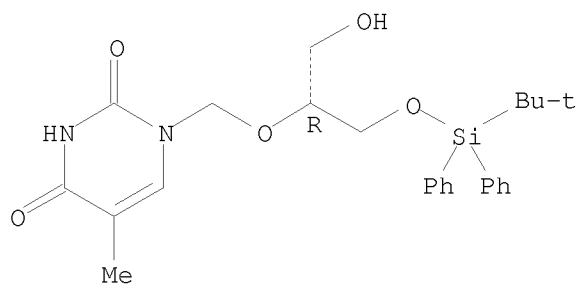
Absolute stereochemistry.



RN 201732-40-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1-(hydroxymethyl)ethoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

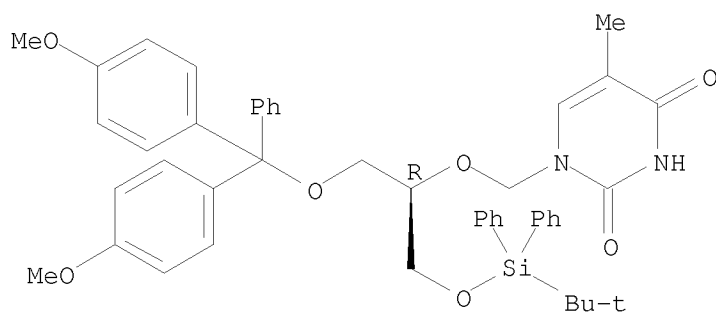
Absolute stereochemistry.



RN 201732-41-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R)-2-[bis(4-methoxyphenyl)phenylmethoxy]-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
 RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 67 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:1278 CAPLUS

DN 128:85149

OREF 128:16521a,16524a

TI Synthetic Unrandomization of Random oligomer Fragments (SURF), a nonenzymic method for determining oligomers with specific target activity

IN Cook, Phillip Dan; Ecker, David J.; Wyatt, Jacqueline; Bruice, Thomas W.; Anderson, Kevin; Hanecak, Ronnie; Vickers, Timothy; Davis, Peter; Freier, Susan M.; Sanghvi, Yogesh S.; Brown-driver, Vickie

PA Isis Pharmaceuticals, Inc., USA

SO U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 196,103.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 5698391	A	19971216	US 1994-357396	19941216
	US 5672472	A	19970930	US 1994-196103	19940222
	US 5747253	A	19980505	US 1995-386141	19950208
PRAI	US 1991-749000	B2	19910823		
	US 1994-196103	A2	19940222		
	WO 1992-US7121	W	19920821		
	US 1994-357396	A2	19941216		

AB Methods useful for the determination of oligomers which have specific activity for

a target mol. from a pool of primarily randomly assembled oligomers are provided. The disclosed methods involve repeated syntheses of increasingly simplified sets of oligomers coupled with selection procedures for determining oligomers having the highest activity. Freedom from the use of enzymes allows the application of these methods to any mols. which can be oligomerized in a controlled fashion. Synthesis of monomers for use in preparation of oligonucleotide analogs was described. Use of SURF to produce oligonucleotides and analogs which inhibited herpes simplex virus 1 or HIV, or which bound to endothelin-1 or leukotriene B4, etc. were reported.

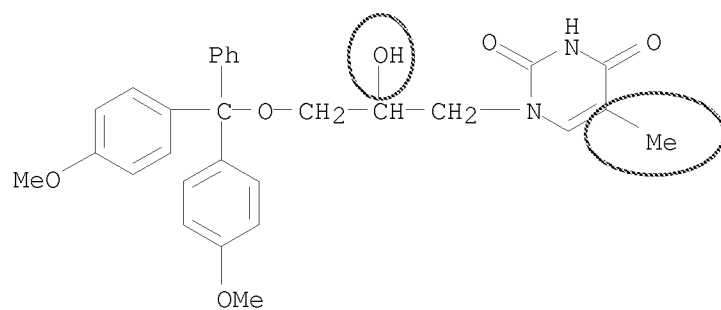
IT 171406-23-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthetic Unrandomization of Random oligomer Fragments (SURF), nonenzymic method for determining oligomers with specific target activity)

RN 171406-23-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 68 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1997:568924 CAPLUS

DN 127:262991

OREF 127:51373a,51376a

TI Synthesis and properties of 2'-deoxy-1',2'-seco-D-ribosyl (5'→3')oligonucleotides (= 1',2'-seco-DNA) containing adenine and thymine

AU Peng, Ling; Roth, Hans Jorg

CS Lab. Organic Chem., Swiss Federal Institute Technology, Zurich, CH-8092, Switz.

SO Helvetica Chimica Acta (1997), 80(5), 1494-1512

CODEN: HCACAV; ISSN: 0018-019X

PB Verlag Helvetica Chimica Acta

DT Journal

LA English

AB Some 2'-deoxy-1',2'-seco-D-ribosyl (5'→3')oligonucleotides (= 1,2'-seco-DNA), differing from natural DNA only by a bond scission between the centers C(1') and C(2'), were synthesized and studied to compare their structure properties and pairing behavior with those of corresponding natural DNA and homo-DNA oligonucleotides (2',3'-dideoxy-β-glucopyranosyl oligonucleotides). Starting from (-)-D-tartaric acid, N6-benzoyl-2'-deoxy-1',2'-secoadenosine and 2'-deoxy-1',2'-secothymidine were obtained in pure crystalline form. Using the phosphoramidite variant of the phosphite-triester method, a dinucleotide monophosphate 1',2'-seco-d(T2) was synthesized in solution, while oligonucleotides 1',2'-seco-d[(AT)6], 1',2'-seco-d(A10) and 1',2'-seco-d(T10) were prepared on solid phase with either automated or manual techniques. Results of UV, CD, and gel-electrophoretic studies indicated that neither adenine-thymine base pairing (as observed in natural DNA and homo-DNA), nor the adenine-adenine base pairing (as observed in homo-DNA) was effective in 1',2'-seco-DNA. Furthermore, hybrid pairing was observed neither between 1',2'-seco-DNA and natural DNA nor between 1',2'-seco-DNA and homo-DNA.

IT 195512-85-7P

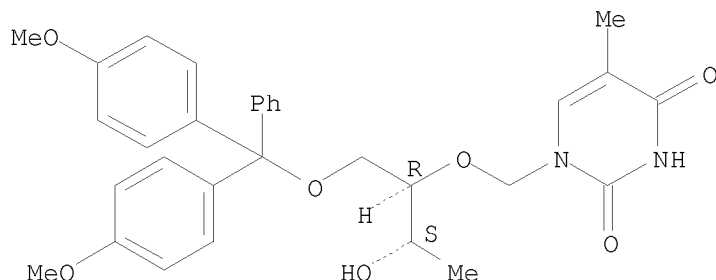
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and properties of adenine- and thymine-containing deoxyseco-ribosyl oligonucleotides)

RN 195512-85-7 CAPLUS

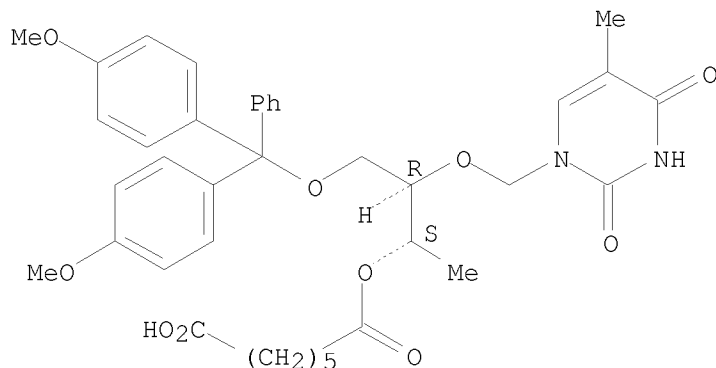
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[(1R,2S)-1-[[bis(4-methoxyphenyl)phenylmethoxy)methyl]-2-hydroxypropoxy)methyl]-5-methyl-(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT	195512-93-7DP, polymer-supported
	RL: SPN (Synthetic preparation); PREP (Preparation)
	(synthesis and properties of adenine- and thymine-containing
	deoxysecoribosyl oligonucleotides)
RN	195512-93-7 CAPLUS
CN	Heptanedioic acid, 1-[(1S,2R)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-
	[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-1-
	methylpropyl] ester (CA INDEX NAME)

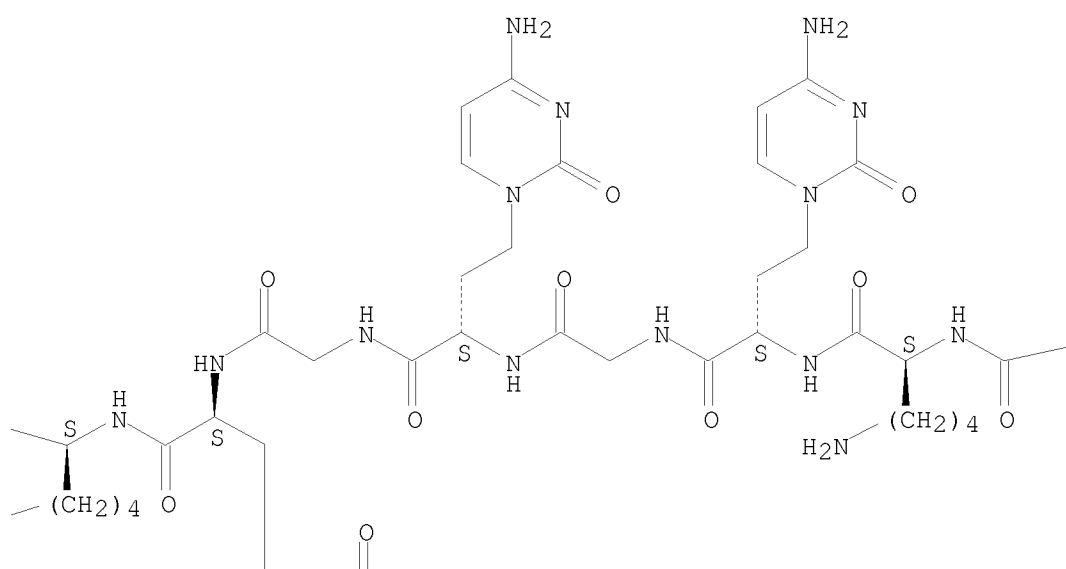
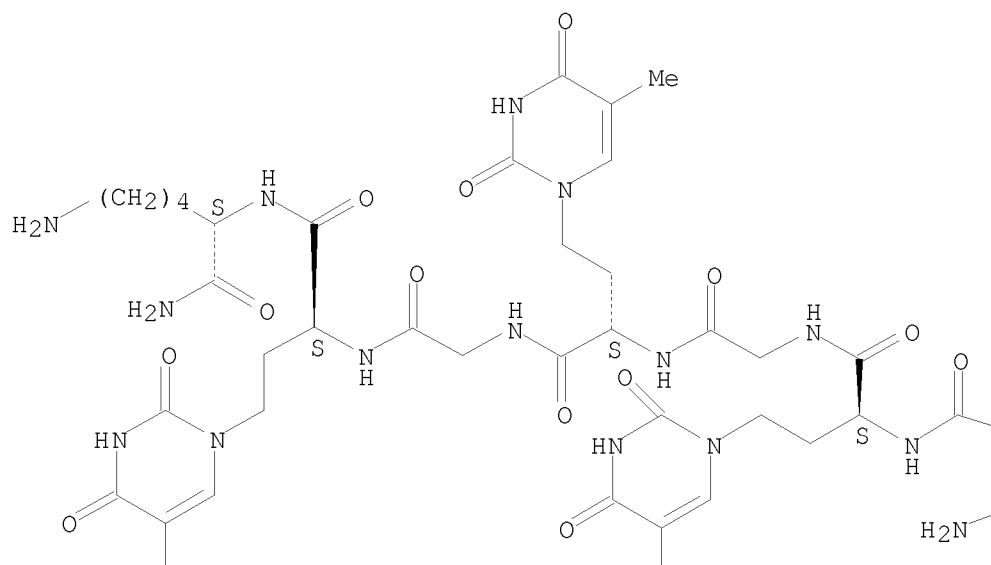
Absolute stereochemistry.

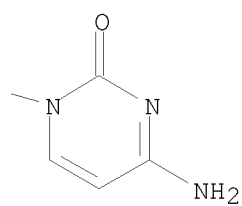
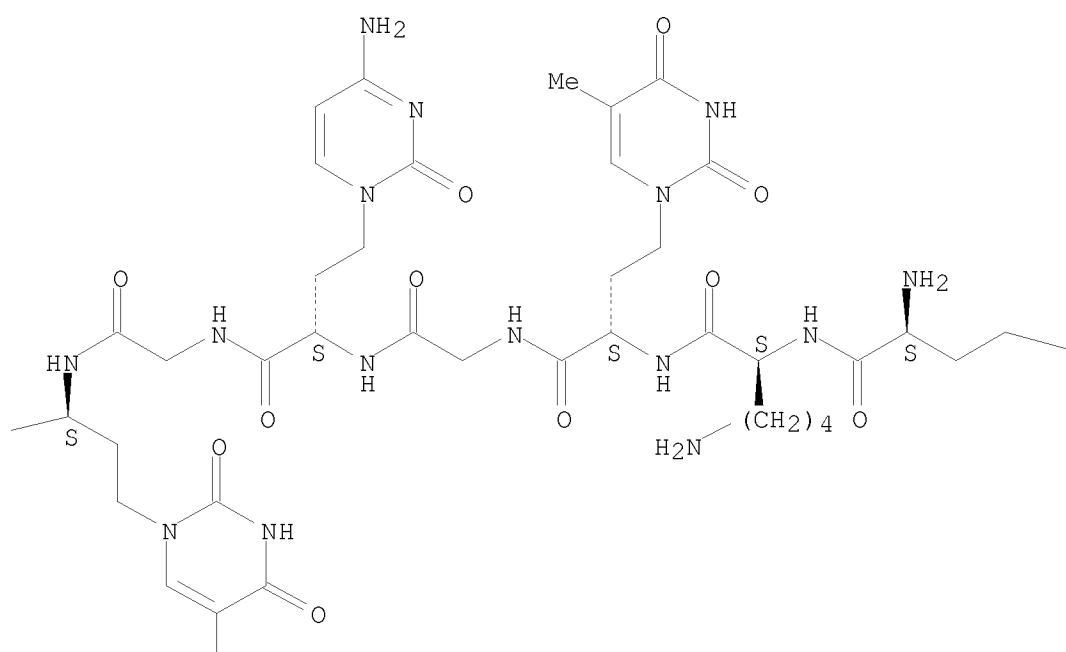


OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

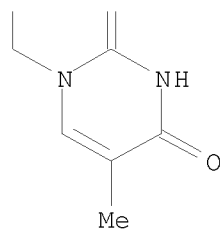
L11 ANSWER 69 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1997:533245 CAPLUS
 DN 127:220967
 OREF 127:43072h,43073a
 TI α -PNA: a novel peptide nucleic acid analog of DNA
 AU Howarth, Nicola M.; Wakelin, Laurence P. G.
 CS Cancer Drug Discovery, Dep. Chem., Univ. Coll. Dublin, Dublin, Ire.
 SO Journal of Organic Chemistry (1997), 62(16), 5441-5450
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 127:220967
 AB Peptide nucleic acid (PNA) analogs of DNA have attracted interest as potential pharmacol. regulators of gene expression since they have the capacity to invade duplex DNA forming Watson-Crick base paired PNA:DNA heteroduplexes. Unfortunately, strand invasion is limited to homopurine and homopyrimidine sequences and there is the need to explore further PNA analogs for the purpose of expanding the strand invasion alphabet. Accordingly, a true peptide mimic of DNA (designated α -PNA) was designed, involving novel L- α -amino acids, with side chains comprising the four DNA bases attached via an ethylene linkage, interspaced with glycine. The four base-containing amino acids have been synthesized from N-Boc-L-homoserine, via alkylation of the appropriate base with the key intermediate (S)-2-(N-Boc-amino)-4-bromobutyric acid Me ester followed by hydrolysis. These amino acids have been incorporated into α -PNA oligomers using both solution and solid phase methods.
 IT 194920-19-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of novel backbone-attached peptide nucleic acid building blocks)
 RN 194920-19-9 CAPLUS
 CN L-Lysinamide, (α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α ,4-diamino-2-oxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl-L-lysyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoylglycyl-(α S)- α -amino-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinebutanoyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





PAGE 2-B



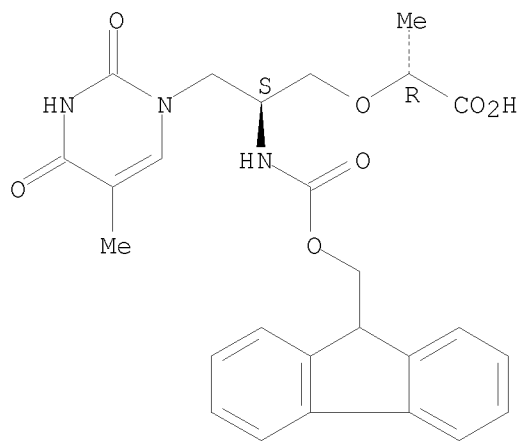
PAGE 2-C



OSC.G	56	THERE ARE 56 CAPLUS RECORDS THAT CITE THIS RECORD (56 CITINGS)
RE.CNT	35	THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 70 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1997:357092 CAPLUS
 DN 127:95569
 OREF 127:18405a,18408a
 TI Novel polyamide based nucleic acid analogs - synthesis of oligomers and RNA-binding properties
 AU Garcia-Echeverria, Carlos; Huesken, Dieter; Chiesi, Chantal Schmit; Altmann, Karl-Heinz
 CS Central Research Laboratories, and Pharmaceutical Research, Oncology Dep., CIBA, USA
 SO Bioorganic & Medicinal Chemistry Letters (1997), 7(9), 1123-1126
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier
 DT Journal
 LA English
 AB The synthesis of novel polyamide based nucleic acid analogs incorporating monomer units of type I (R = H, Me) and II has been accomplished using solid-phase strategies based on N-9-fluorenylmethoxycarbonyl (Fmoc) protected building blocks. An oligomer composed of monomer units I (R = H) exhibited weak, but sequence-specific RNA binding. Improved RNA-binding affinity was observed for analogs incorporating building blocks of type I [R = (R)-Me], but not in the case of I [R = (S)-Me].
 IT 191655-42-2 191655-60-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and RNA binding affinity of novel polyamide-based nucleic acid analogs)
 RN 191655-42-2 CAPLUS
 CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]propoxy]-, (2R)- (CA INDEX NAME)

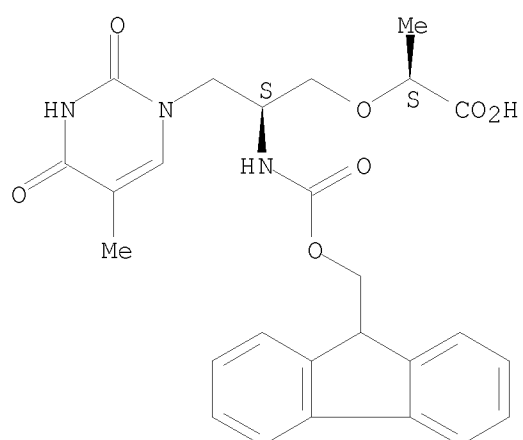
Absolute stereochemistry.



RN 191655-60-4 CAPLUS
 CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]propoxy]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

10/585,283



OSC.G	13	THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
RE.CNT	12	THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 71 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1997:357090 CAPLUS

DN 127:81743

OREF 127:15685a

TI Polyamide based nucleic acid analogs - synthesis of δ -amino acids with nucleic acid bases bearing side chains

AU Altmann, Karl-Heinz; Chiesi, Chantal Schmit; Garcia-Echeverria, Carlos

CS Central Research Laboratories, and Pharmaceutical Research Division, Oncology Dep., CIBA, USA

SO Bioorganic & Medicinal Chemistry Letters (1997), 7(9), 1119-1122
CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier

DT Journal

LA English

OS CASREACT 127:81743

AB Nucleoamino acids of type I (R = H, Me) and II have been synthesized, which can serve as building blocks for novel polyamide based nucleic acid analogs. Key steps in the syntheses are the alkylation of protected serinol and homoserinol with tert-Bu bromoacetate or tert-Bu bromopropionate under phase transfer conditions and the introduction of thymidine or uracil into the amino acid side chains by way of a Mitsunobu reaction. Cytosine derivs. were prepared through uracil to cytosine base conversion at the stage of N-tert-butoxycarbonyl protected amino acid tert-Bu esters.

IT 191655-41-1P 191655-54-6P 191655-55-7P

191655-56-8P 191655-59-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of amino acids with nucleic acid base-containing side chains)

RN 191655-41-1 CAPLUS

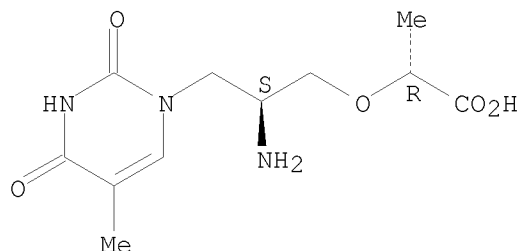
CN Propanoic acid, 2-[(2S)-2-amino-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)propoxy]-, (2R)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 191655-40-0

CMF C11 H17 N3 O5

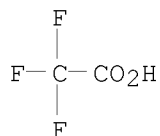
Absolute stereochemistry.



CM 2

CRN 76-05-1

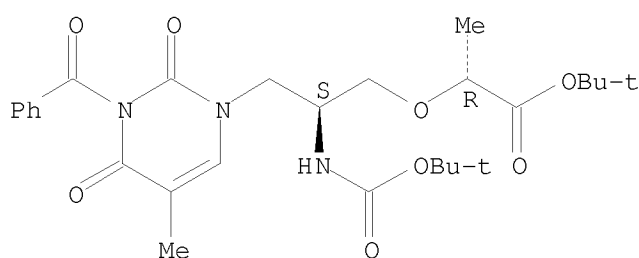
CMF C2 H F3 O2



RN 191655-54-6 CAPLUS

CN Propanoic acid, 2-[(2S)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-, 1,1-dimethylethyl ester, (2R)- (CA INDEX NAME)

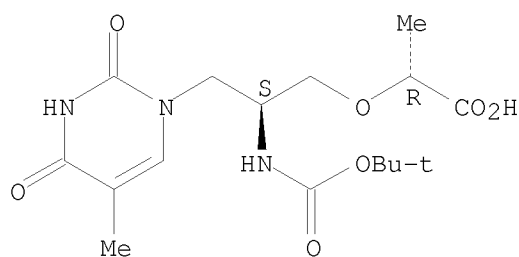
Absolute stereochemistry.



RN 191655-55-7 CAPLUS

CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-, (2R)- (CA INDEX NAME)

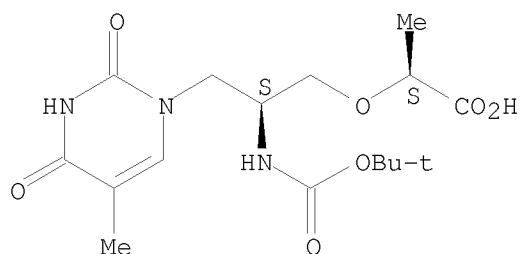
Absolute stereochemistry.



RN 191655-56-8 CAPLUS

CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

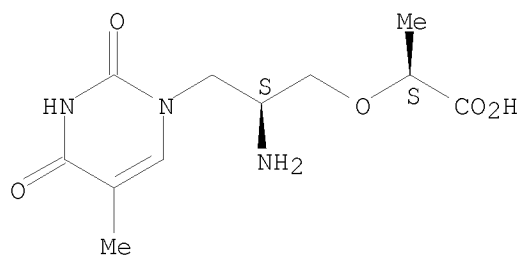


RN 191655-59-1 CAPLUS
 CN Propanoic acid, 2-[(2S)-2-amino-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)propoxy]-, (2S)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

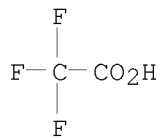
CRN 191655-58-0
 CMF C11 H17 N3 O5

Absolute stereochemistry.



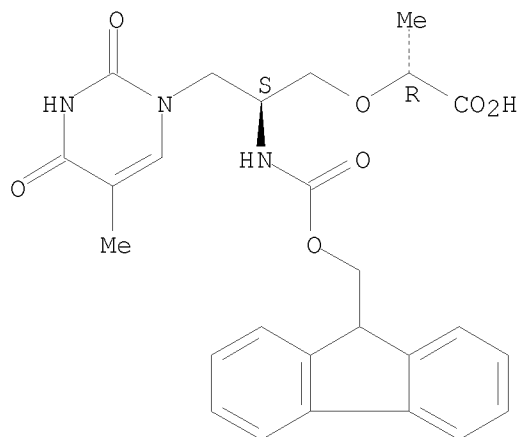
CM 2

CRN 76-05-1
 CMF C2 H F3 O2



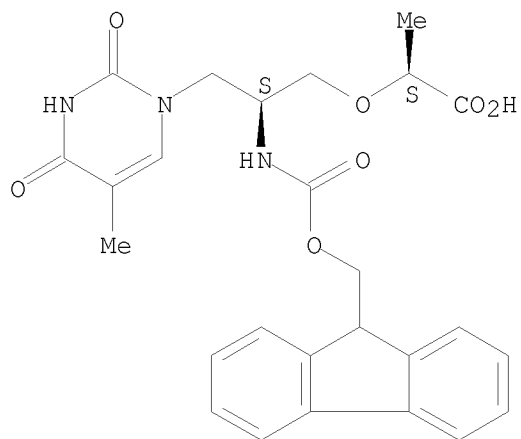
IT 191655-42-2P 191655-60-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of amino acids with nucleic acid base-containing side chains)
 RN 191655-42-2 CAPLUS
 CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]propoxy]-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 191655-60-4 CAPLUS
 CN Propanoic acid, 2-[(2S)-3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]propoxy]-, (2S)-
 (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)
 RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 72 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1997:320918 CAPLUS

DN 126:325005

OREF 126:62967a,62970a

TI Synthesis and Anti-HIV Activity of Novel N-1 Side Chain-Modified Analogs of 1-[(2-Hydroxyethoxy)methyl]-6-(phenylthio)thymine (HEPT)

AU Pontikis, Renee; Benhida, Rachid; Aubertin, Anne-Marie; Grierson, David S.; Monneret, Claude

CS Section Recherche, Institut Curie, Paris, 75231, Fr.

SO Journal of Medicinal Chemistry (1997), 40(12), 1845-1854

CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

AB A series of 33 N-1 side chain-modified analogs of HEPT were synthesized and evaluated for their anti-HIV-1 activity. In particular, the effect of substitution of the terminal hydroxy group of the acyclic structure of HEPT and the structural rigidity of this side chain were investigated. Halo, azido, and amino derivs. were prepared from HEPT via the p-tosylate derivative. Acylation of the primary amine afforded the amido analogs. Diaryl derivs. were prepared by reaction of HEPT, or of the 6-(2-pyridylthio) analog, with diaryl disulfides in the presence of tri-n-butylphosphine. Compds. in which the N-1 side chain is rigidified by incorporation of an E-configured double bond, were obtained by palladium(0)-catalyzed coupling of several different 6-(arylthio)uracil derivs. with allyl acetates. Compds. incorporating an aromatic ring at the end of the acyclic side chain, were more potent than the known diphenyl-substituted HEPT analog BPT, 2 of them, being 10-fold more active.

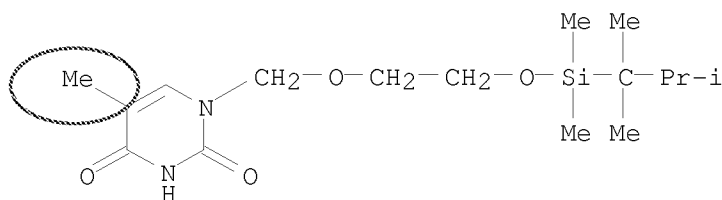
IT 189637-39-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and anti-HIV activity of hydroxyethoxymethyl(phenylthio)thymine analogs)

RN 189637-39-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



OSC.G 47 THERE ARE 47 CAPLUS RECORDS THAT CITE THIS RECORD (48 CITINGS)

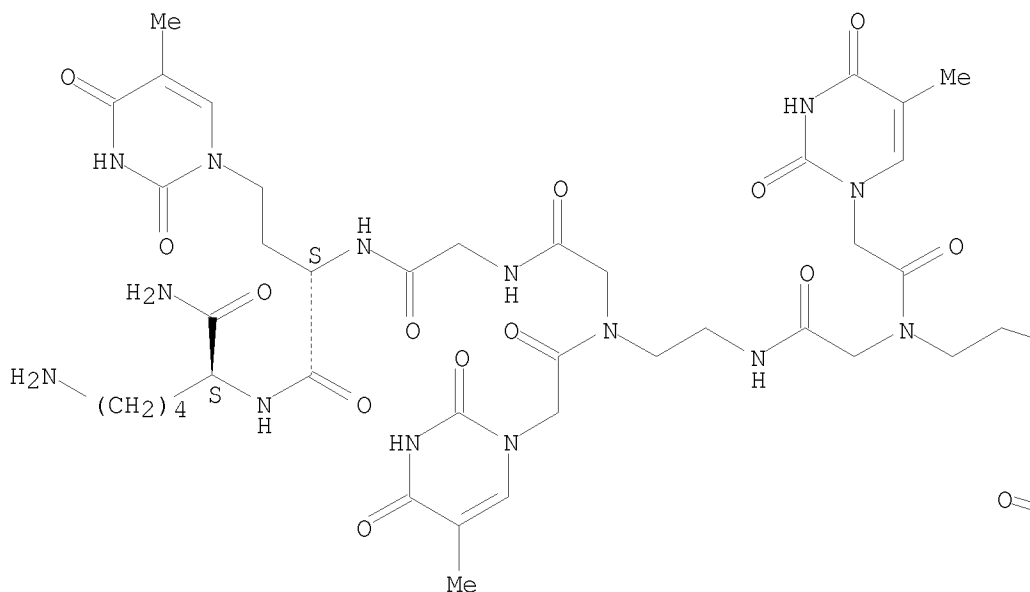
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

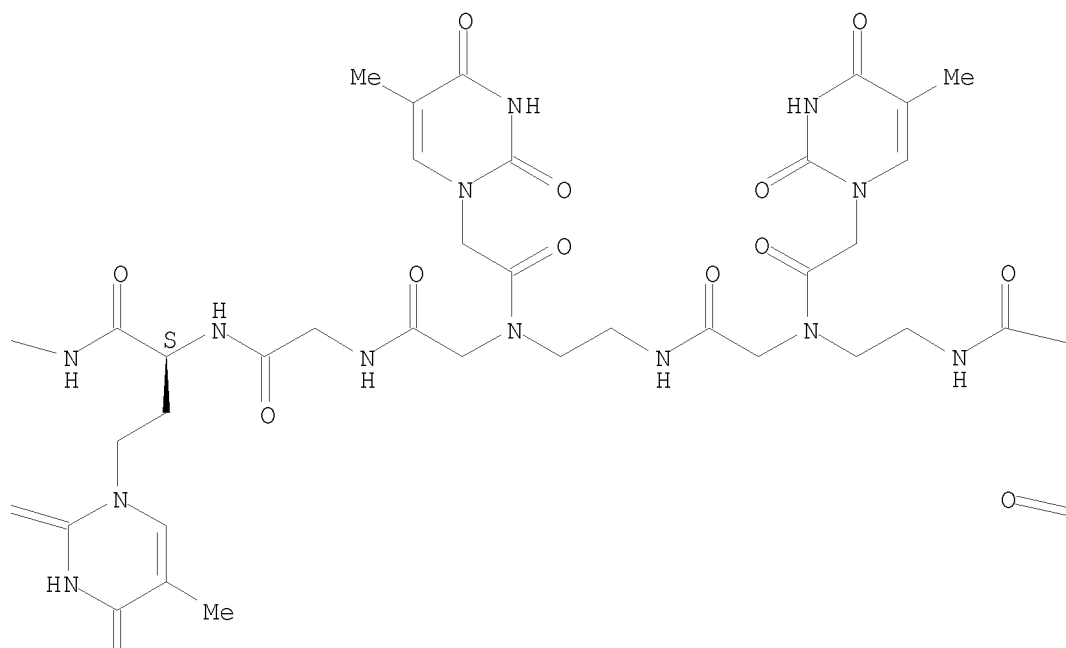
L11 ANSWER 73 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1997:219832 CAPLUS
 DN 126:305772
 OREF 126:59235a,59238a
 TI New hetero-oligomeric peptide nucleic acids with improved binding properties to complementary DNA
 AU Jordan, Stephan; Schwemler, Christoph; Kosch, Winfried; Kretschmer, Axel; Stropp, Udo; Schwenner, Eckhardt; Mielke, Burkhard
 CS Central Research, Bayer AG, Leverkusen, D-51368, Germany
 SO Bioorganic & Medicinal Chemistry Letters (1997), 7(6), 687-690
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier
 DT Journal
 LA English
 AB Hetero-oligomeric PNAs consisting of new monomeric building blocks L-trans-I, L-cis-I, D-trans-I, II, and III (X = O) and various amts. of N-(2-aminoethyl)glycine (IV) have been synthesized by solid-phase chemical Some of these new compds. show stronger binding to complementary DNA than the original PNAs, and are consequently very interesting candidates as antisense compds. for applications in therapy and in diagnostics.
 IT 189253-86-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation of new hetero-oligomeric peptide nucleic acids with improved binding properties to complementary DNA)
 RN 189253-86-9 CAPLUS
 CN Peptide nucleic acid, (H-T-T-Gly-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-(2S)-2-aminobutanoyl-T-T-Gly-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-(2S)-2-aminobutanoyl-T-T-Gly-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-(2S)-2-aminobutanoyl-Lys-NH2 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

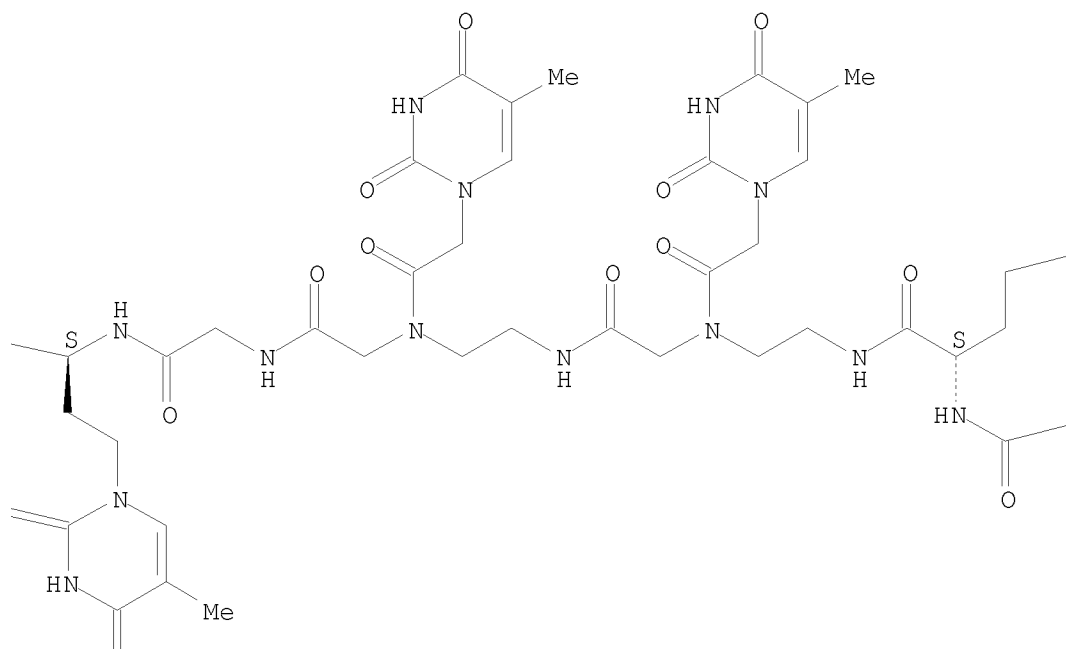
PAGE 1-A



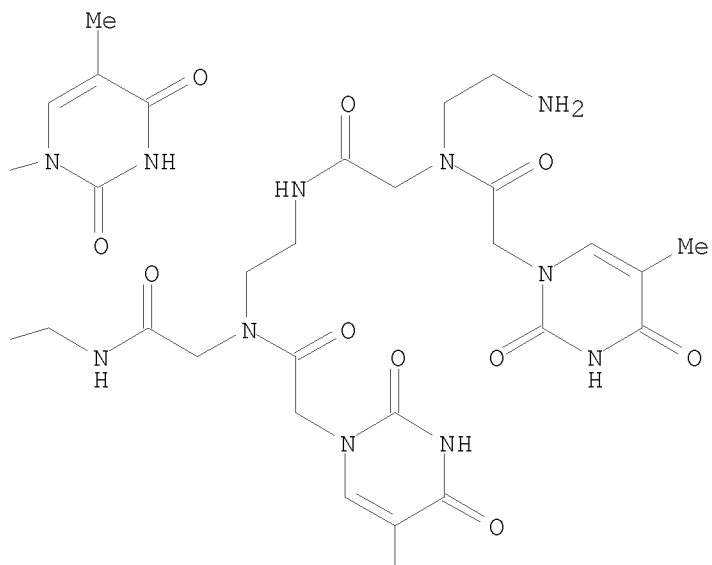
PAGE 1-B



PAGE 1-C



PAGE 1-D



PAGE 2-B



PAGE 2-C



PAGE 2-D

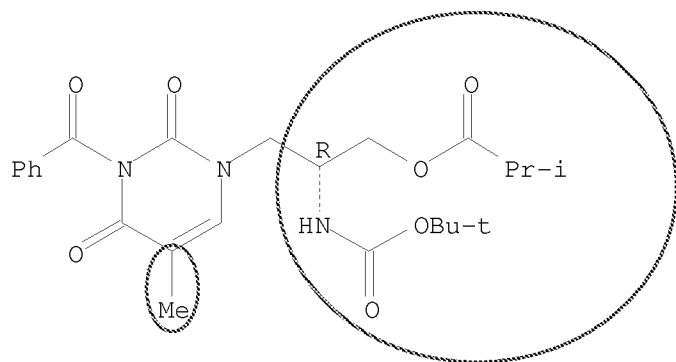


OSC.G	43	THERE ARE 43 CAPLUS RECORDS THAT CITE THIS RECORD (44 CITINGS)
RE.CNT	19	THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 74 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:473097 CAPLUS
 DN 125:143231
 OREF 125:26829a,26832a
 TI Preparation of amino acid-nucleic acid compounds.
 IN Ramasamy, Kandasamy; Wang, Guangyi; Seifert, Wilfried
 PA Icn Pharmaceuticals, USA
 SO PCT Int. Appl., 143 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9614330	A1	19960517	WO 1995-US14599	19951102
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2202274	A1	19960517	CA 1995-2202274	19951102
	AU 9642341	A	19960531	AU 1996-42341	19951102
	AU 693622	B2	19980702		
	EP 789707	A1	19970820	EP 1995-940671	19951102
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN 1171112	A	19980121	CN 1995-196989	19951102
	HU 77435	A2	19980428	HU 1997-2053	19951102
	HU 218086	B	20000528		
	JP 10508312	T	19980818	JP 1995-515518	19951102
	RU 2154638	C2	20000820	RU 1997-108680	19951102
	PL 185852	B1	20030829	PL 1995-320084	19951102
PRAI	US 1994-333895	A	19941102		
	WO 1995-US14599	W	19951102		
AB	R3CHBCONRCH[CHR1(OH)]CHR2OH, R3CHBCHR4NRCH[CHR1(OH)]CHR2OH, BZNRXCH[CHR1(OH)]CHR2OH, etc. [B = nucleoside base; R-R2 = H, OH, SH, CN, Me, OMe, SMe, ONH2, Ph, etc.; X, Z = (CH2)x, CO, CS, O, S, SO, SO2, NH, NOH, NMe, etc.; x = 1-7], were prepared as intermediates for oligonucleotide analogs. The oligonucleotide analogs are claimed, but no synthetic data for them are given. Thus, N-tert-butoxycarbonyl-O-benzyl-D-serinol (preparation given) was stirred with CF3CO2H in CH2Cl2 and the crude product was added to a mixture of thymineacetic acid (preparation given), N-methylmorpholine, and iso-Bu chloroformate in DMF to give 54% intermediate (I). I was hydrogenolyzed, dimethoxytritylated, and phosphitylated to give title compound (II).				
IT	179472-14-1P	179472-15-2P	179472-16-3P		
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of amino acid-nucleic acid compds.)				
RN	179472-14-1	CAPLUS			
CN	Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[(1,1-dimethylethoxy)carbonyl]amino]propyl ester (CA INDEX NAME)				

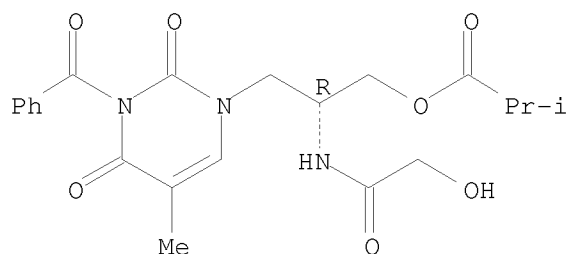
Absolute stereochemistry.



RN 179472-15-2 CAPLUS

CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[(hydroxyacetyl)amino]propyl ester (9CI) (CA INDEX NAME)

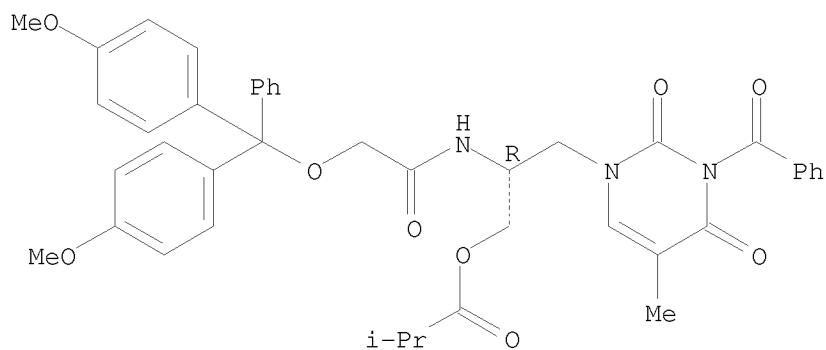
Absolute stereochemistry.



RN 179472-16-3 CAPLUS

CN Propanoic acid, 2-methyl-, (2R)-3-(3-benzoyl-3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-2-[[[bis(4-methoxyphenyl)phenylmethoxy]acetyl]amino]propyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 75 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:431361 CAPLUS

DN 125:115077

OREF 125:21623a,21626a

TI Preparation of novel antisense nucleotide analogs containing acyclic nucleoside analogs

IN Imanishi, Takeshi; Obika, Satoshi

PA Japan

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

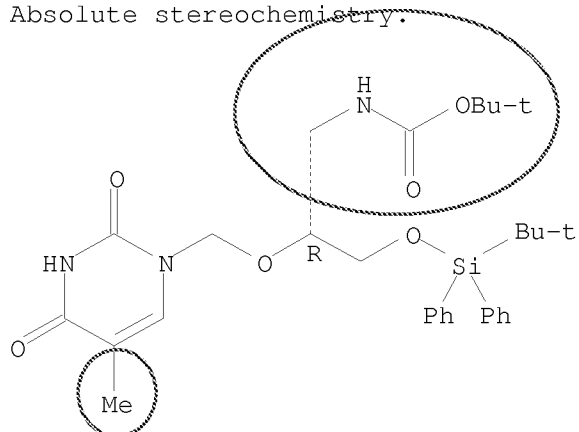
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9606833	A1	19960307	WO 1995-JP1729	19950831
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KE, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9533545	A	19960322	AU 1995-33545	19950831
	JP 08119945	A	19960514	JP 1995-222886	19950831
PRAI	JP 1994-207343	A	19940831		
	WO 1995-JP1729	W	19950831		
AB	Antisense mols. represented by the following general formulas (I, II, and III; B1, B2 = the same or different pyrimidine or purine nucleic acid base or a derivative thereof; X, Y = oxygen or sulfur; R = H, alkyl, or acyl; W = H, alkyl, or acyl, or when X = oxygen, W = nucleotide, oligonucleotide, or polynucleotide bonded via a phosphate linkage; n = an integer of 1 to 50, provided when n ≥ 2, B1 or B2 may be different from each other), which contain carbamate or thiocarbamate internucleotide linkages and acyclic nucleosides that alleviate the structural strain during the formation of a double strand and also suppress the manifestation of toxicity since they release glycerin derivs. in in vivo decomposition or metabolism, are prepared. Thus, a 12-mer 5'-GCGTTTT-Tt-GCT-3' (Tt = Q, B1 = B2 = T) was prepared by the solid phase phosphoramidite method using a Pharmacia DNA synthesizer Gene Assembler Plus, and a heterodimer unit amidite (IV) [preparation from (S)-glycidol given]. 13-Mers 5'-CTTTTTTTTTT-Tt-G-3', 5'-CTTTT-Tt-TTTTTG-3', and 5'-C-Tt-Tt-Tt-Tt-Tt-TG-3' in vitro showed resistance to degradation by snake venom phosphodiesterase (exonuclease). A 21-mer 5'-GCAG-Cc-TCCTTCCCATG-Cc-A-3' (Cc = Q, B = B = C) at 1 μM in vitro inhibited the expression of human soluble IL-6R in CHO.SR344 cells to 180 ng/mL from 240 ng/mL (control).				
IT	173465-40-2P	173465-43-5P	173465-46-8P		
	173465-47-9P	173465-48-0P	173465-49-1P		
	173465-60-6P	173465-62-8P	173465-64-0P		
	173465-65-1P	173465-66-2P	178748-33-9P		
	178748-35-1P	178748-36-2P	178748-39-5P		
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of novel antisense nucleotide analogs containing acyclic nucleoside				
	analog and carbamate or thiocarbamate internucleotide linkages)				
RN	173465-40-2	CAPLUS			

CN Carbamic acid, [2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]-, 1,1-dimethylethyl ester, (R)- (9CI) (CA INDEX NAME)

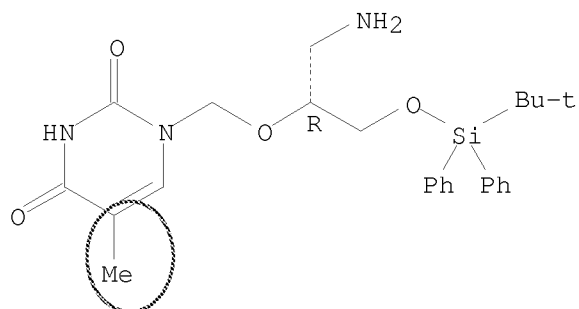
Absolute stereochemistry.



RN 173465-43-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2-amino-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

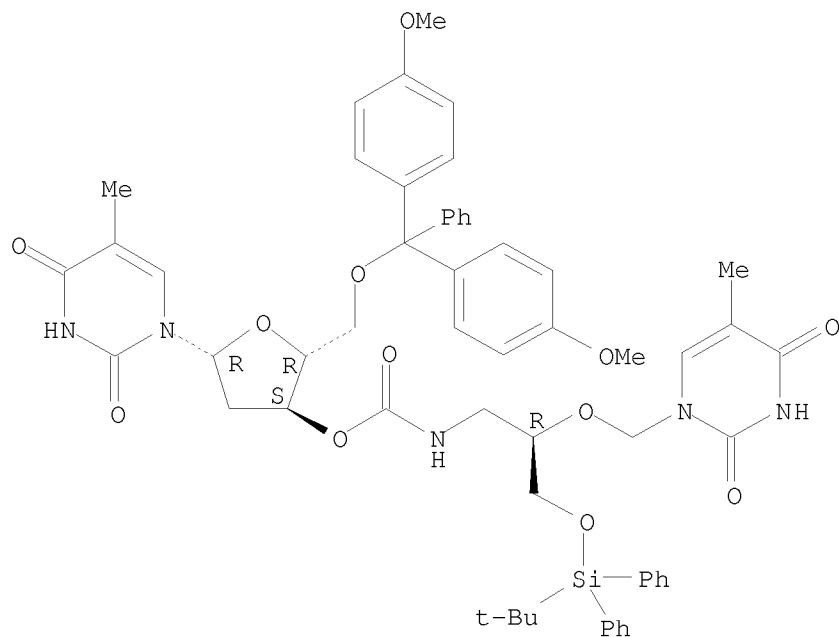
Absolute stereochemistry.



RN 173465-46-8 CAPLUS

CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-, 3'-[[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA INDEX NAME)

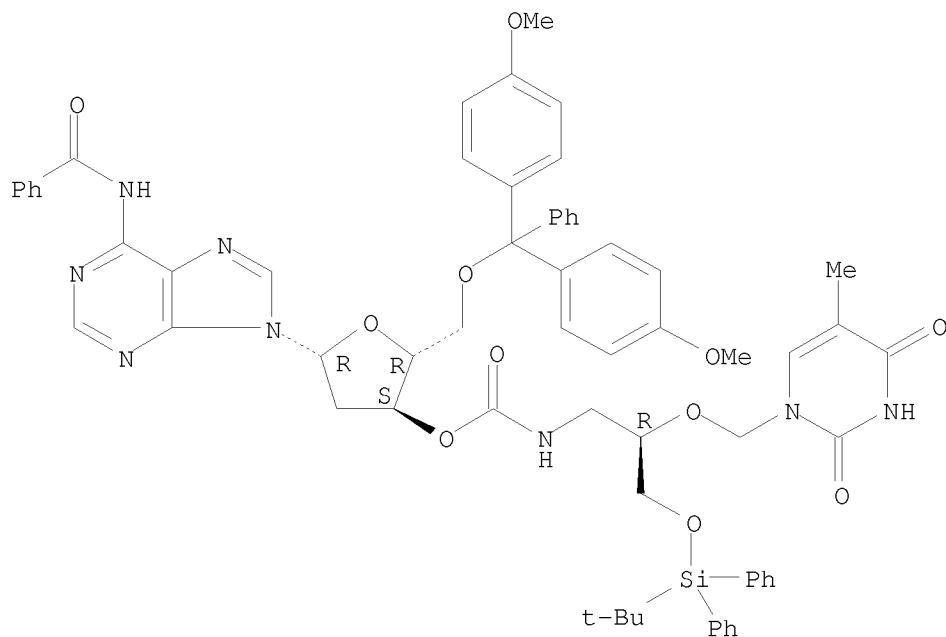
Absolute stereochemistry.



RN 173465-47-9 CAPLUS

CN Adenosine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-,
3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-
[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA
INDEX NAME)

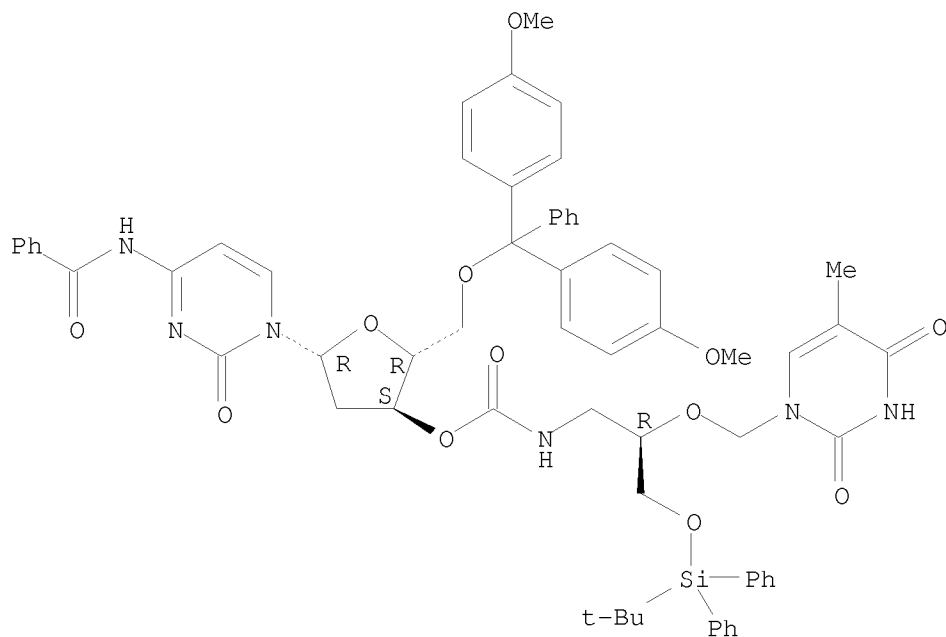
Absolute stereochemistry.



RN 173465-48-0 CAPLUS

CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-,
3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-
[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA
INDEX NAME)

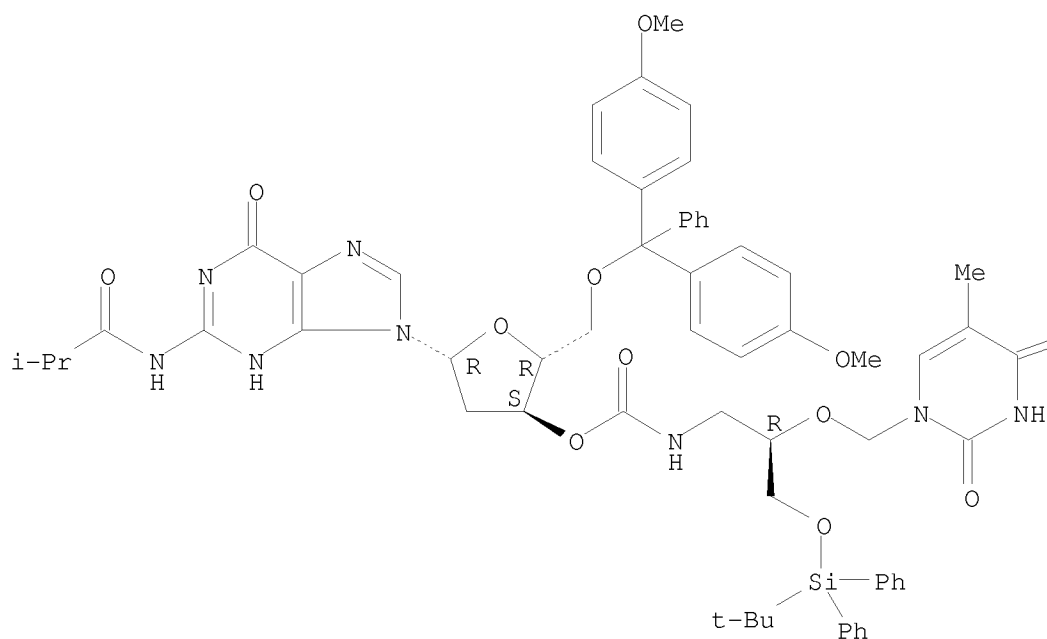
Absolute stereochemistry.



RN 173465-49-1 CAPLUS

CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-N-(2-methyl-1-oxopropyl)-, 3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA INDEX NAME)

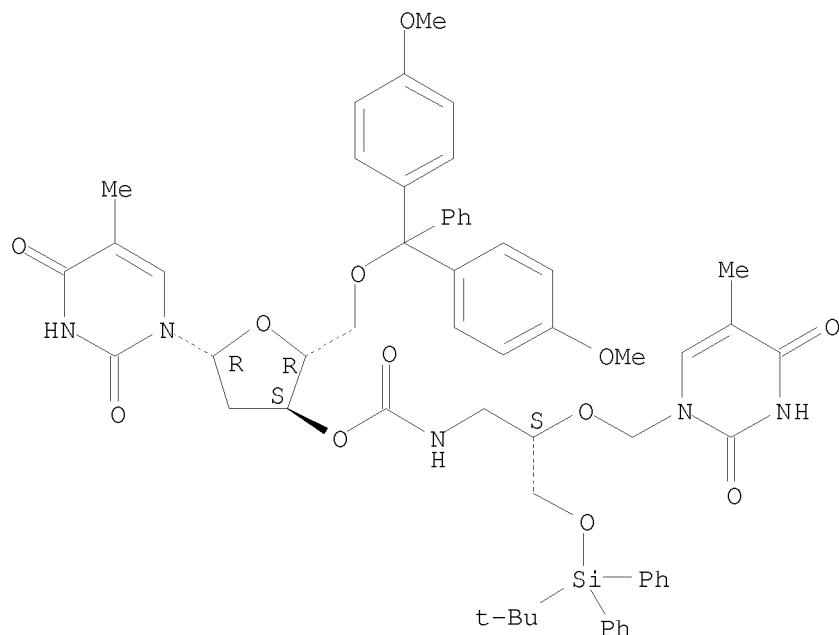
Absolute stereochemistry.



$\text{C}=\text{O}$

RN 173465-60-6 CAPLUS
 CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-,
 3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-
 [[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (S)- (9CI) (CA
 INDEX NAME)

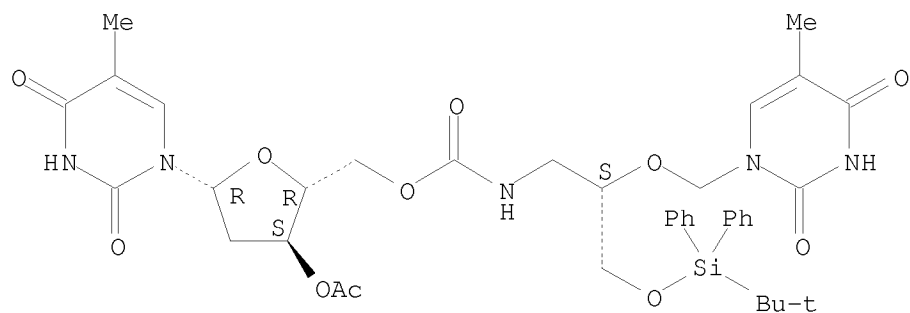
Absolute stereochemistry.



RN 173465-62-8 CAPLUS

CN Thymidine, 3'-acetate 5'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (S)- (9CI) (CA INDEX NAME)

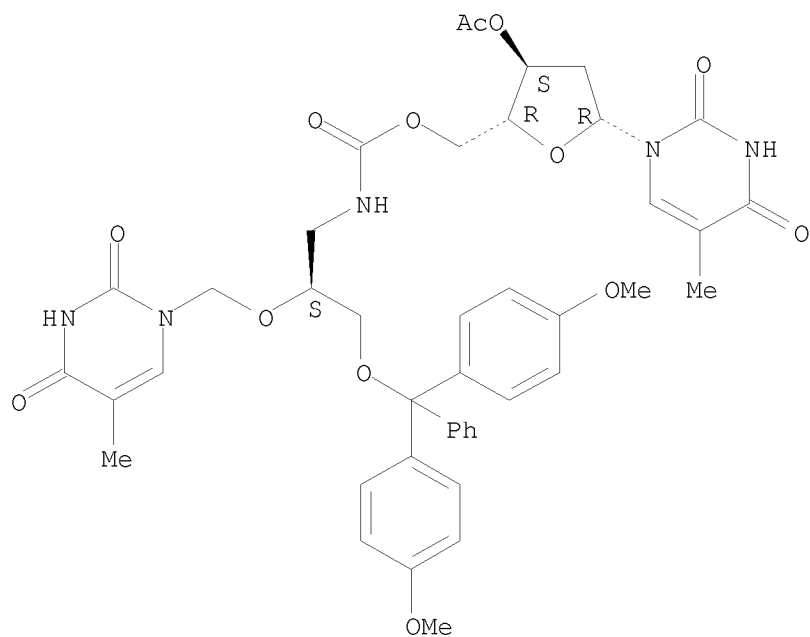
Absolute stereochemistry.



RN 173465-64-0 CAPLUS

CN Thymidine, 3'-acetate 5'-[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]carbamate], (S)- (9CI) (CA INDEX NAME)

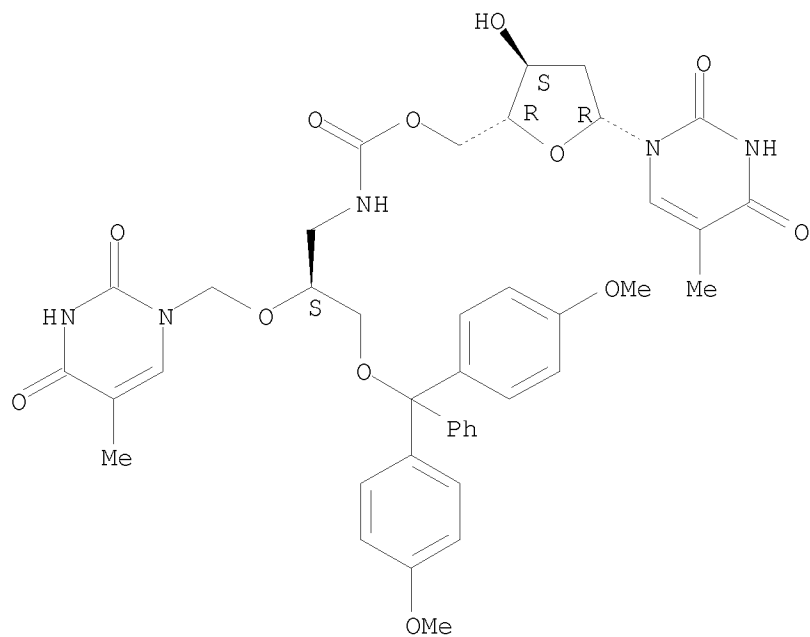
Absolute stereochemistry.



RN 173465-65-1 CAPLUS

CN Thymidine, 5'-[[3-[[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]carbamate], (S)- (9CI)
(CA INDEX NAME)

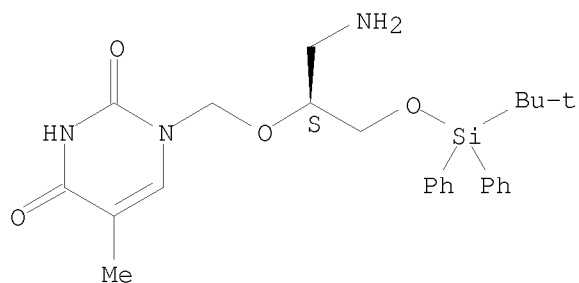
Absolute stereochemistry.



RN 173465-66-2 CAPLUS

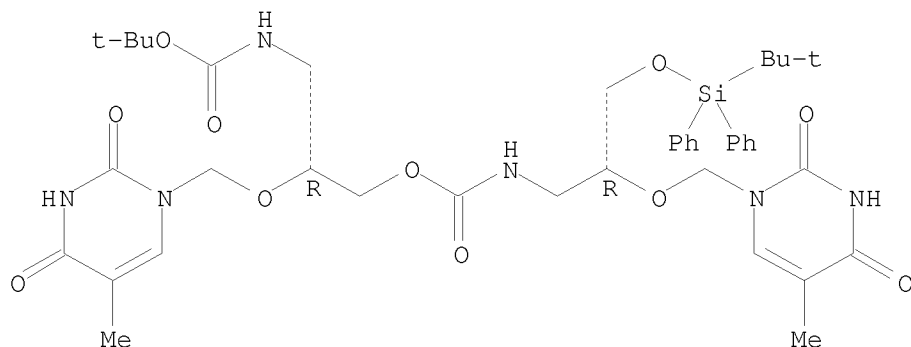
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-amino-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



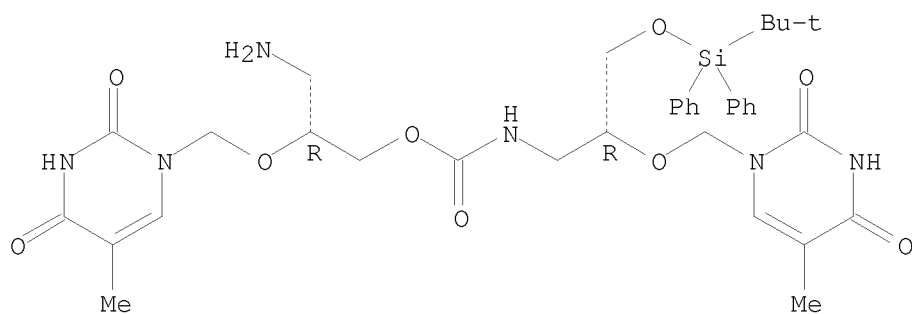
RN 178748-33-9 CAPLUS
CN 6,12-Dioxa-2,8-diaza-13-silapentadecanoic acid,
4,10-bis[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-14,14-dimethyl-7-oxo-13,13-diphenyl-, 1,1-dimethylethyl ester, [R-(R*,R*)]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 178748-35-1 CAPLUS
CN Carbamic acid, [2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]-, 3-amino-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

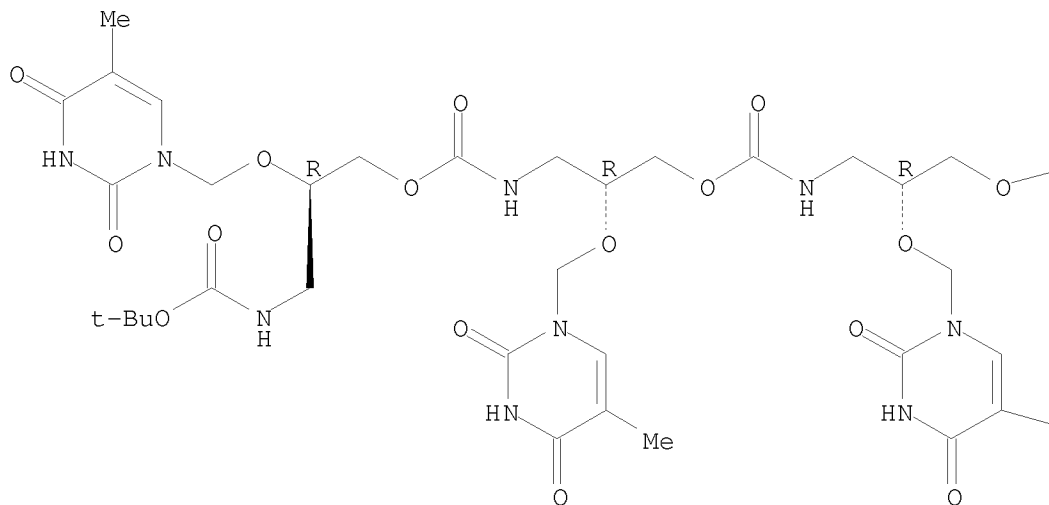
Absolute stereochemistry.

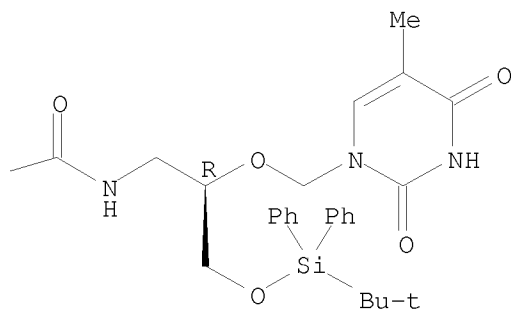


RN 178748-36-2 CAPLUS
 CN 6,12,18,24-Tetraoxa-2,8,14,20-tetraaza-25-silaheptacosanoic acid,
 4,10,16,22-tetrakis[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinyl)methoxy]-26,26-dimethyl-7,13,19-trioxo-25,25-diphenyl-,
 1,1-dimethylethyl ester, [4R-(4R*,10R*,16R*,22R*)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

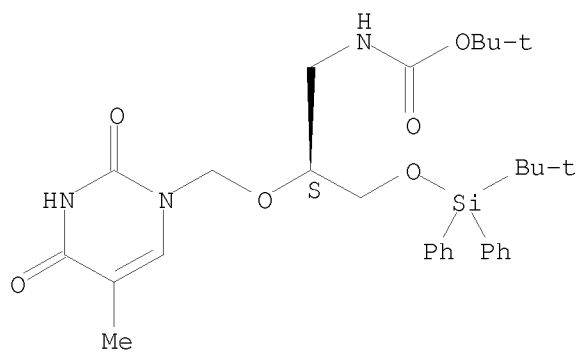




Me

RN 178748-39-5 CAPLUS
 CN Carbamic acid, [2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

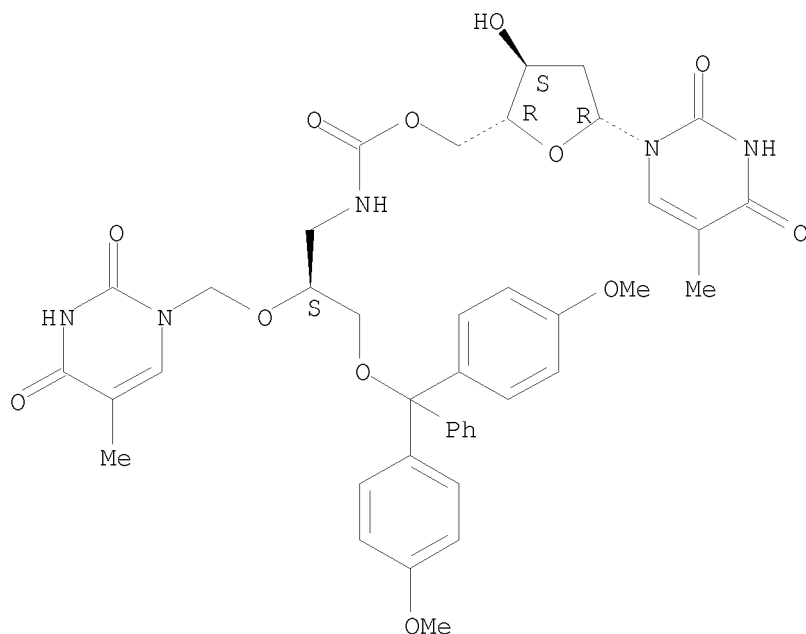
Absolute stereochemistry.



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 76 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:398905 CAPLUS
 DN 125:168550
 OREF 125:31597a,31600a
 TI Properties of novel oligonucleotide analogs containing an acyclic nucleoside and a carbamate linkage
 AU Obika, Satoshi; Takashima, Yoshihiro; Matsumoto, Yasuhide; Shimoyama, Atsuko; Koishihara, Yasuo; Ohsugi, Yoshiyuki; Doe, Takefumi; Imanishi, Takeshi
 CS Faculty Pharmaceutical Sci., Osaka Univ., Osaka, 565, Japan
 SO Bioorganic & Medicinal Chemistry Letters (1996), 6(12), 1357-1360
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier
 DT Journal
 LA English
 AB Novel heterodimers containing an acyclic nucleoside and a carbamate linkage were incorporated into oligonucleotides, and the melting temps. of the DNA-DNA and DNA-RNA duplexes as well as the nuclease resistance of the modified oligonucleotides were studied.
 IT 173465-65-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and phosphodiesterase resistance of novel oligodeoxyribonucleotide analog duplexes containing an acyclic nucleoside and a carbamate linkage)
 RN 173465-65-1 CAPLUS
 CN Thymidine, 5'-[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]carbamate], (S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

10/585,283

L11 ANSWER 77 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:323791 CAPLUS

DN 125:87113

OREF 125:16456h,16457a

TI Carbocation scavenging during oligonucleotide synthesis

IN Ravikumar, Vasulinga; Andrade, Mark; Mulvey, Dennis; Cole, Douglas L.

PA Isis Pharmaceuticals, Inc., USA

SO U.S., 12 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 5510476	A	19960423	US 1994-271181	19940707
	US 5714597	A	19980203	US 1996-613036	19960308
PRAI	US 1994-271181	A1	19940707		
OS	MARPAT 125:87113				

AB A process is claimed for the synthesis of oligonucleotides comprising the steps of: (a) attaching a protected nucleoside to a solid support, said nucleoside protected at the 5'-O hydroxyl position with an acid labile protecting group that forms a carbocation upon cleavage with acid; (b) removing said 5' protecting group with an acidic solution containing a carbocation scavenging agent to give the free 5' hydroxyl; (c) washing said solid support to remove excess acid solution and scavenged carbocation; (d) reacting in the presence of a catalyst said free 5' hydroxyl with a nucleotide containing an active phosphite; (e) oxidizing the phosphite to a phosphate; (f) capping remaining reactive sites with a solution containing an acid anhydride; (g) repeating steps (b) through (f) at least once for subsequent couplings of addnl. nucleotides; and (h) cleaving said oligonucleotide from said solid support. A 46 μ mole scale synthesis of 5'-TTG-CTT-CCA-TCT-TCC-TCG-TC-3' phosphorothioate was conducted on an automated synthesizer using the phosphoramidite method: in one synthesis deblocking of the 5'-O dimethoxytrityl protecting group was carried out using 3% dichloroacetic acid in dichloromethane; in the second synthesis a mixture of 3% dichloroacetic acid and 3% triethylsilane as a carbocation scavenger, in dichloromethane, was used to remove the dimethoxytrityl protecting group. The yields for the full length oligomers for the control and for the triethylsilane preps. were 76% and 84%, resp.

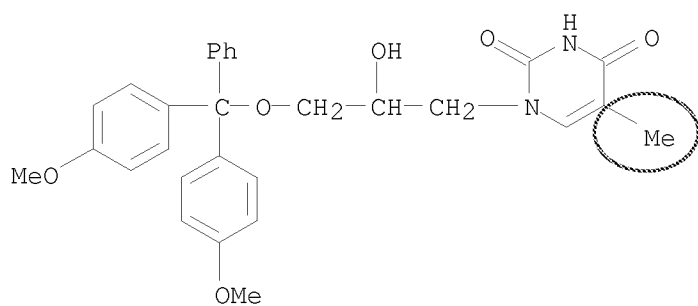
IT 171406-23-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(carbocation scavenging during oligonucleotide synthesis)

RN 171406-23-8 CAPLUS

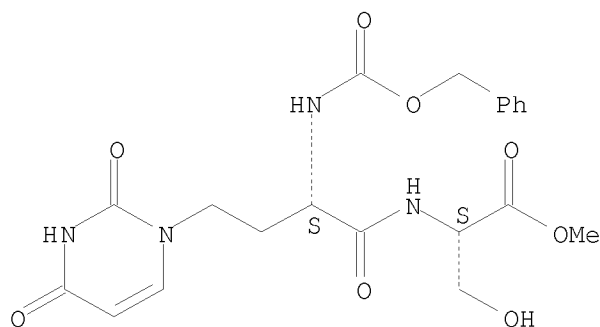
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)



OSC.G	11	THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
RE.CNT	12	THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

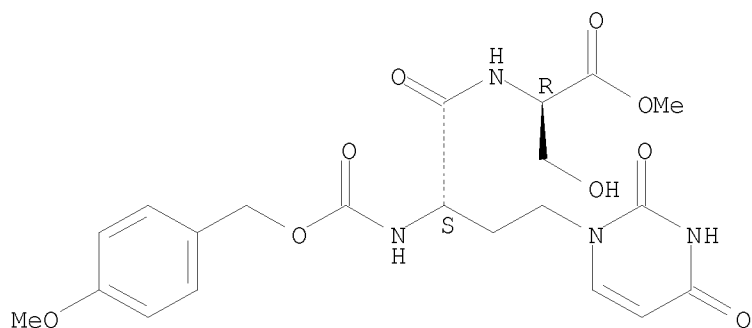
L11 ANSWER 78 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:109086 CAPLUS
 DN 124:196605
 OREF 124:36207a,36210a
 TI Synthesis of oligopeptides as polynucleotide analogs
 AU Umemiya, Hiroki; Kagechika, Hiroyuki; Hashimoto, Yuichi; Shudo, Koichi
 CS Inst. of Molecular and Cellular Biosciences, Univ. of Tokyo, Tokyo, 113, Japan
 SO Nucleosides & Nucleotides (1996), 15(1-3), 465-75
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Dekker
 DT Journal
 LA English
 AB Several dipeptides which have a uracil moiety in their side chains were designed as nucleotide analogs. Oligopeptides obtained from the dipeptides as monomer units were water-soluble, but exhibited no hypochromic effect with poly A or poly dA.
 IT 174230-78-5P 174230-79-6P 174230-80-9P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of oligopeptides as polynucleotide analogs)
 RN 174230-78-5 CAPLUS
 CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 174230-79-6 CAPLUS
 CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

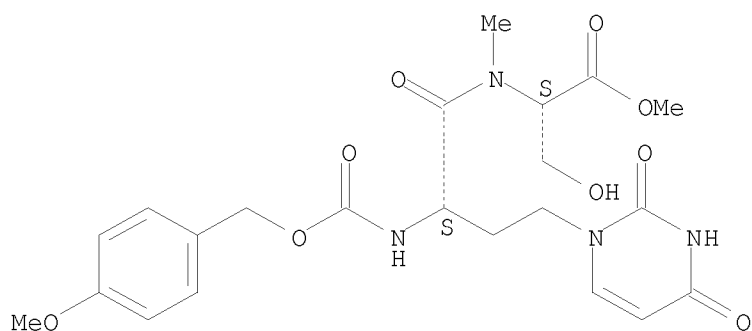
Absolute stereochemistry.



RN 174230-80-9 CAPLUS

CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[(4-methoxyphenyl)methoxycarbonyl]-L-2-aminobutanoyl-N-methyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 174230-88-7P 174230-90-1P 174872-49-2P

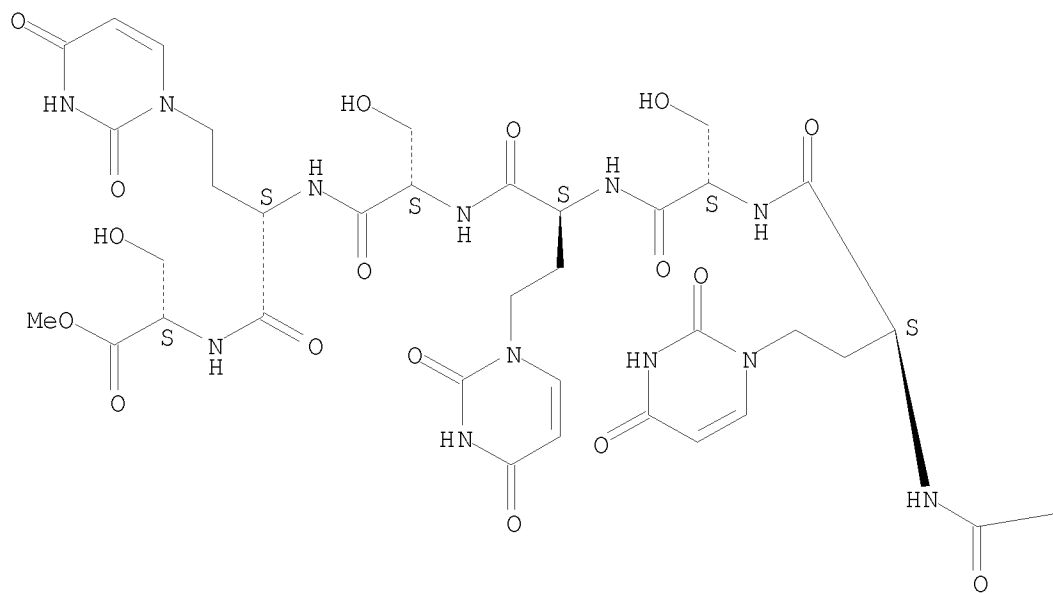
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of oligopeptides as polynucleotide analogs)

RN 174230-88-7 CAPLUS

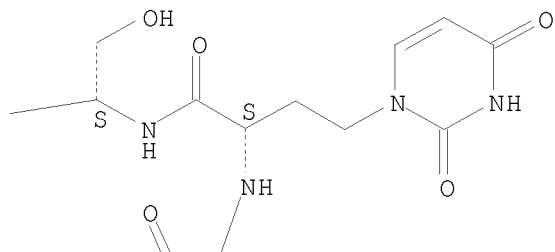
CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

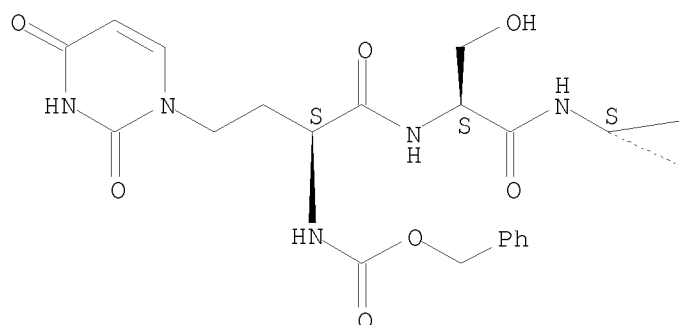
PAGE 1-A



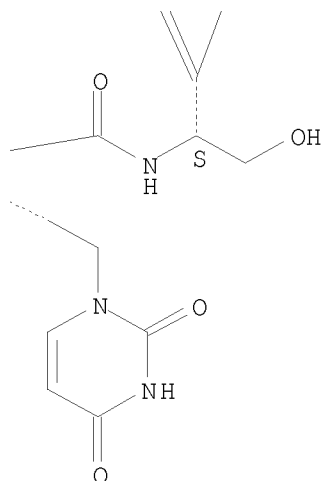
PAGE 1-B



PAGE 2-A



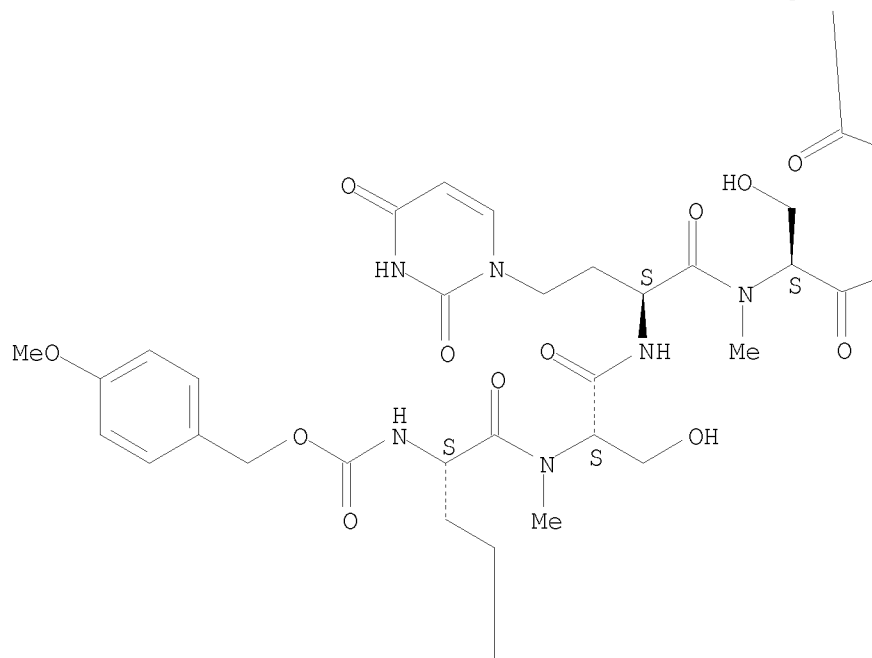
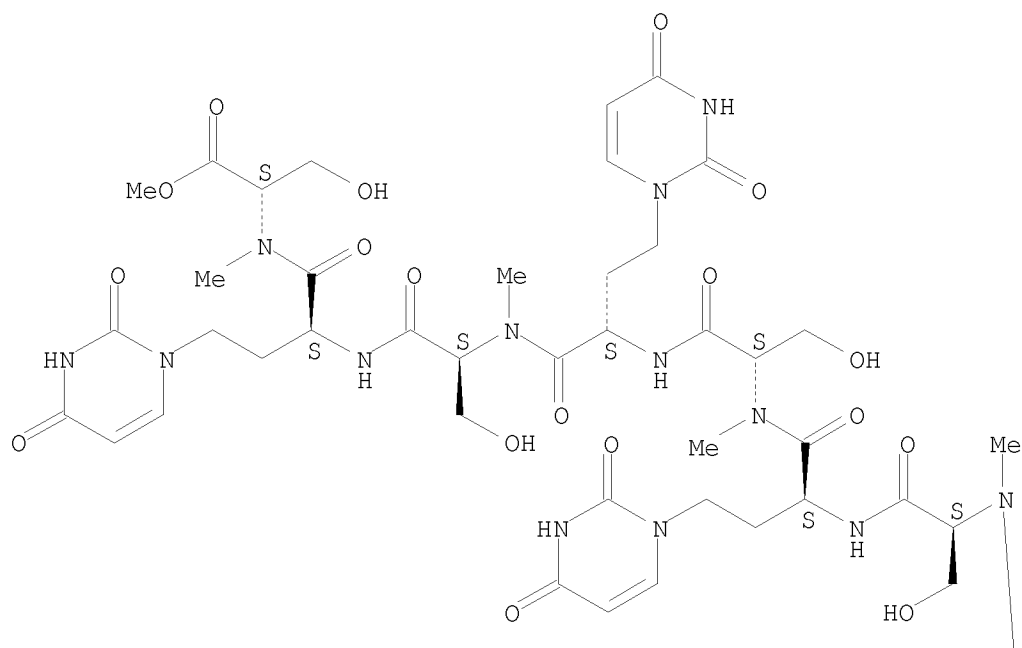
PAGE 2-B

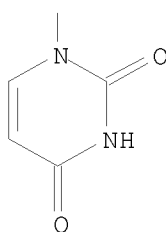
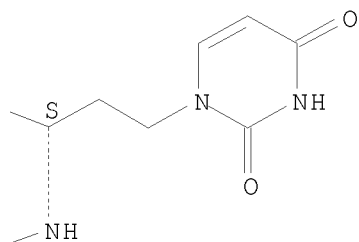


RN 174230-90-1 CAPLUS

CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[(4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-methyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

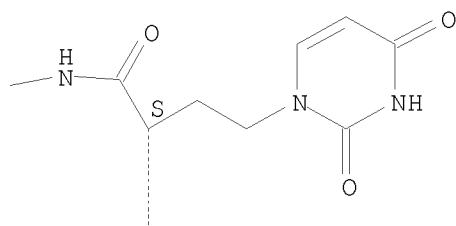
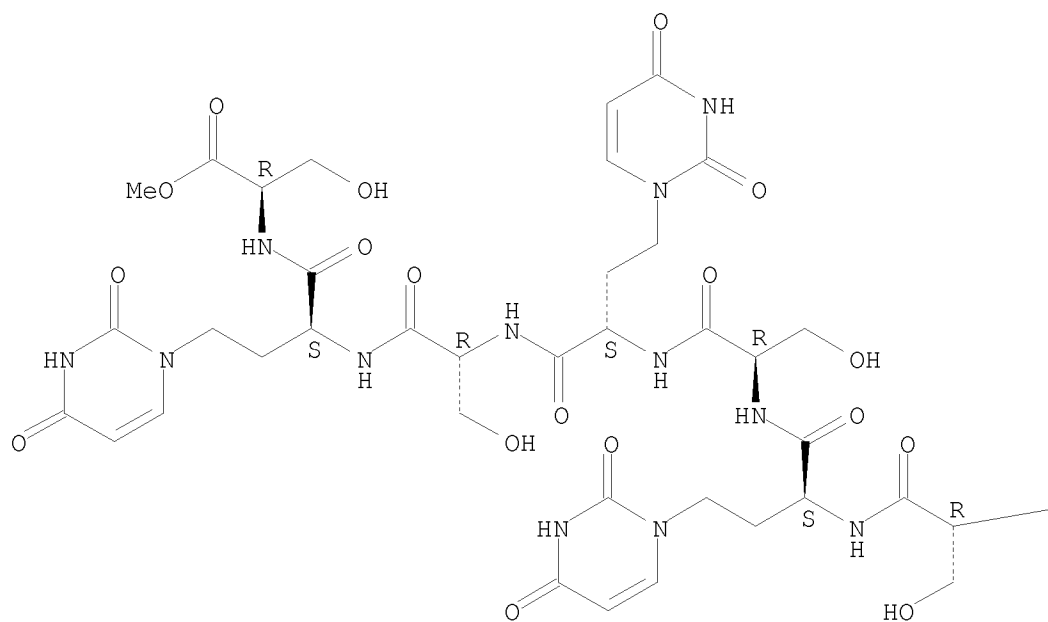




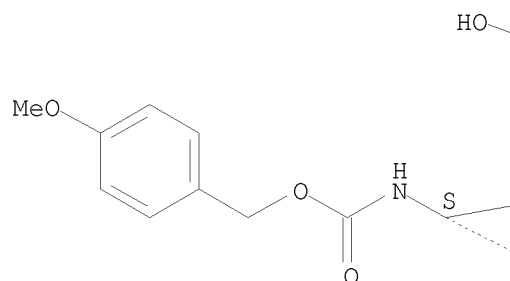
RN 174872-49-2 CAPLUS

CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

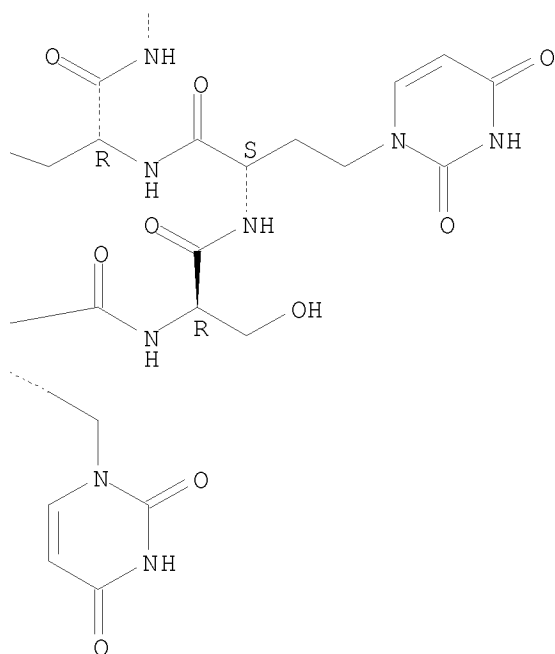
Absolute stereochemistry.



PAGE 2-A



PAGE 2-B

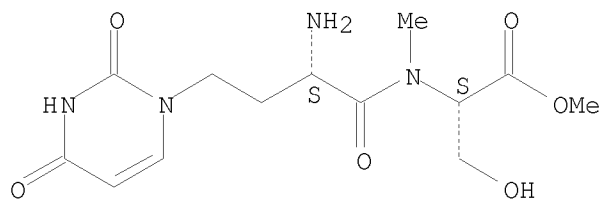


IT 174230-93-4P 174230-96-7P 174230-97-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of oligopeptides as polynucleotide analogs)
 RN 174230-93-4 CAPLUS
 CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-N-
 methyl-, methyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX
 NAME)
 CM 1

10/585,283

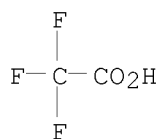
CRN 174230-92-3
CMF C13 H20 N4 O6

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

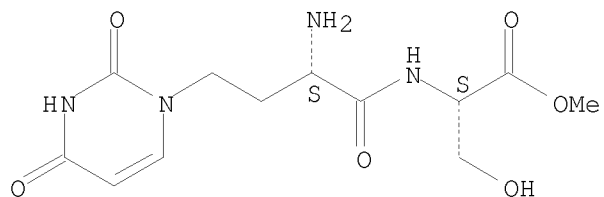


RN 174230-96-7 CAPLUS
CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-,
methyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 174230-95-6
CMF C12 H18 N4 O6

Absolute stereochemistry.



CM 2

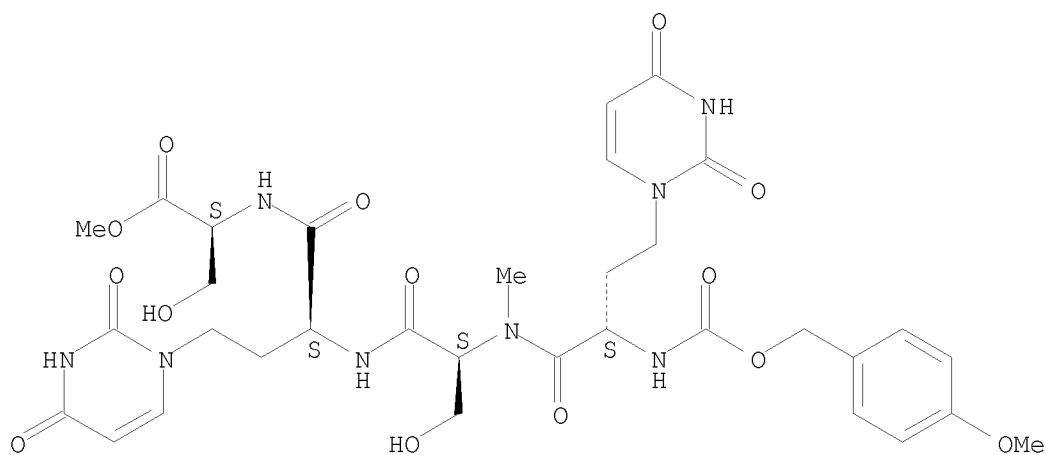
CRN 76-05-1
CMF C2 H F3 O2



RN 174230-97-8 CAPLUS

CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[[4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-N-methyl-L-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L11 ANSWER 79 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:85567 CAPLUS

DN 124:233126

OREF 124:43215a,43218a

TI Synthesis of oligopeptides as polynucleotide analogs

AU Umemiya, Hiroki; Komatsu, Kazunori; Yamazaki, Takahisa; Kagechika, Hiroyuki; Shudo, Koichi; Hashimoto, Yuichi

CS Fac. Pharm. Sci., Univ. Tokyo, Hongo, Bunkyo-ku, Tokyo, 113, Japan

SO Nucleic Acids Symposium Series (1995), 34(Twentysecond Symposium on Nucleic Acids Chemistry, 1995), 37-8

CODEN: NACSD8; ISSN: 0261-3166

PB IRL Press

DT Journal

LA English

AB Several uracil- or adenine-containing dipeptides I [$n = 1$; $R = \text{PhCH}_2\text{O}_2\text{C}$ (Z), $R_1 = \text{Me}$, $X = \text{Ser}$; $R = 4\text{-MeOC}_6\text{H}_4\text{CH}_2\text{O}_2\text{C}$ (Moz), $R_1 = \text{Gly}$, $R_1 = \text{Et}$, $R = \text{Moz}$, $X = \text{D-Ser}$, $R = \text{Me}$] and II ($n = 1$), which have a nucleic acid base in their side chains were designed as water-soluble nucleotide analogs. Uracil- or adenine-containing amino acids were prepared by cyclocondensation of L-2,4-diaminobutanoic acid derivs. with MeOCH:CHCONCO or 4-amino-3,5-dichloropyrimidine and Et orthoformate, resp., and then coupled with serine or glycine esters to afford dipeptides. Oligopeptides I and II ($n = 2, 4, 6$) were prepared from the dipeptide monomer units. Although all the uracil-containing oligopeptides were water-soluble as expected,

these exhibited no hypochromic effect with poly(A) or poly(dA). In contrast, adenine-containing oligopeptides exhibited large hypochromicity (ca. 30%) base-specifically with poly(dT) or poly(U).

IT 174230-78-5P 174230-79-6P 174230-88-7P

174872-45-8P 174872-46-9P 174872-47-0P

174872-48-1P 174872-49-2P

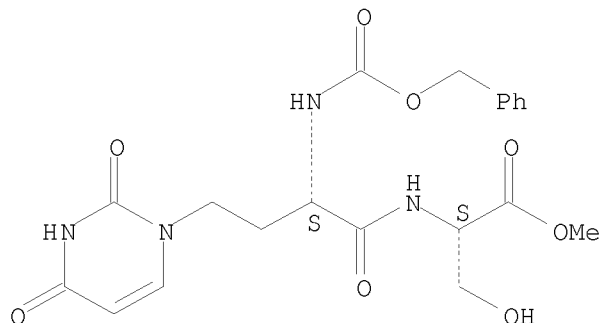
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(preparation and DNA and RNA complexation of water-soluble uracil- and adenine-containing oligopeptides)

RN 174230-78-5 CAPLUS

CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

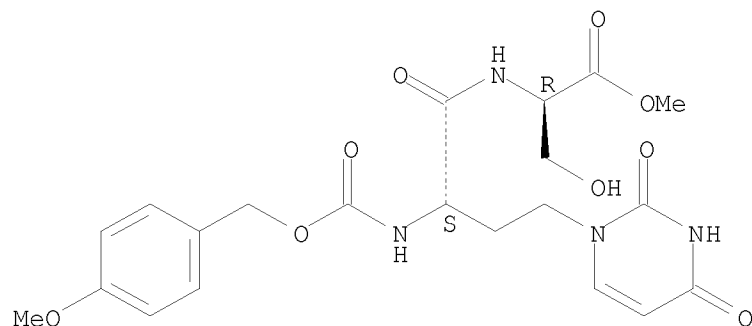


RN 174230-79-6 CAPLUS

CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[(4-

methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-, methyl ester (9CI)
(CA INDEX NAME)

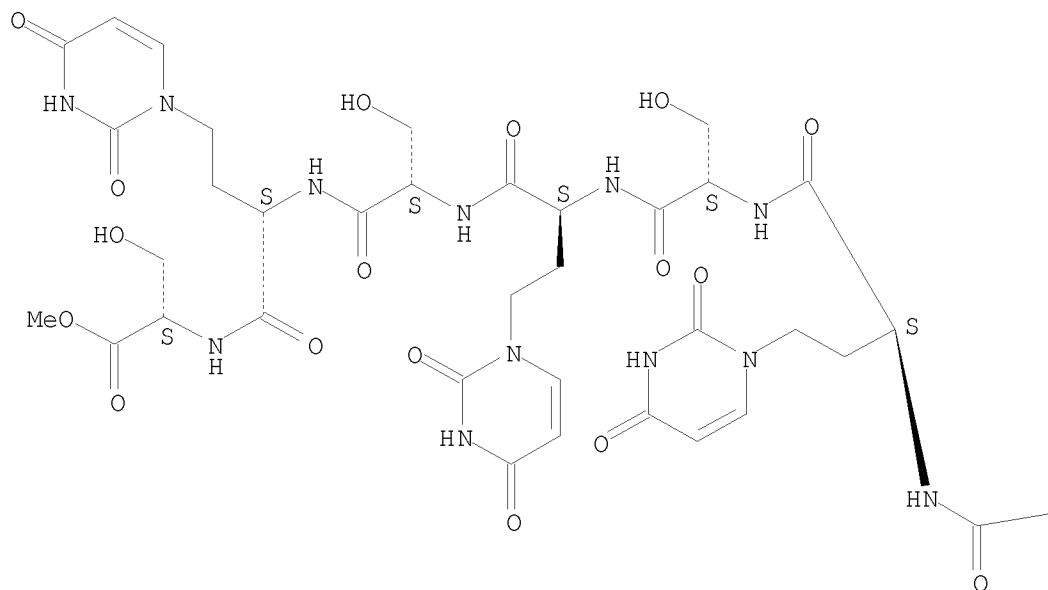
Absolute stereochemistry.

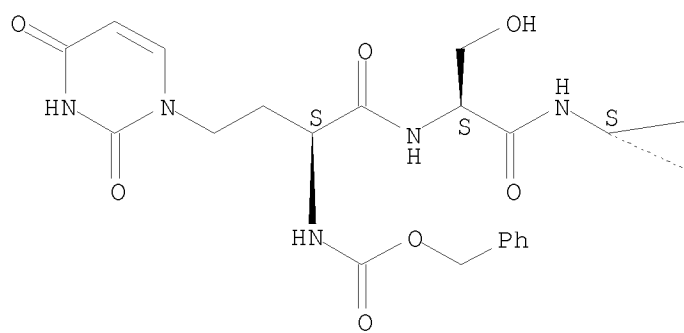
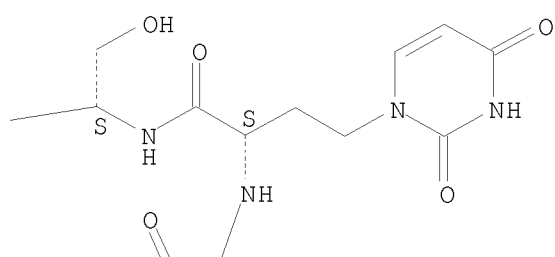


RN 174230-88-7 CAPLUS
CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-
[(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX
NAME)

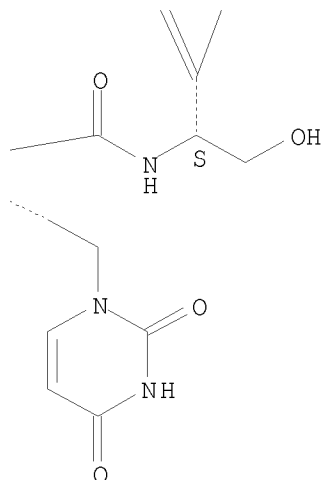
Absolute stereochemistry.

PAGE 1-A





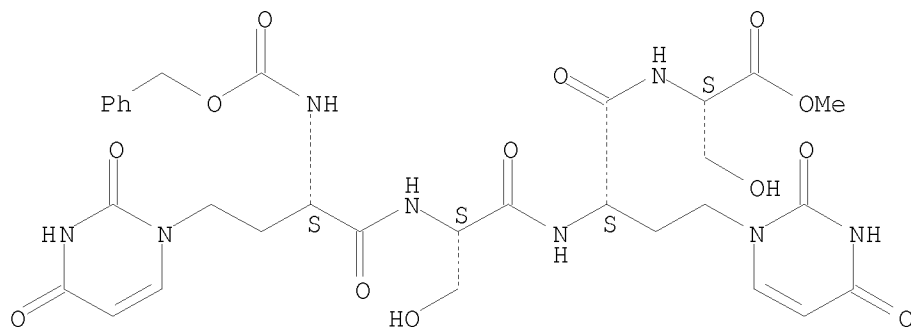
PAGE 2-B



RN 174872-45-8 CAPLUS

CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-
 [(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

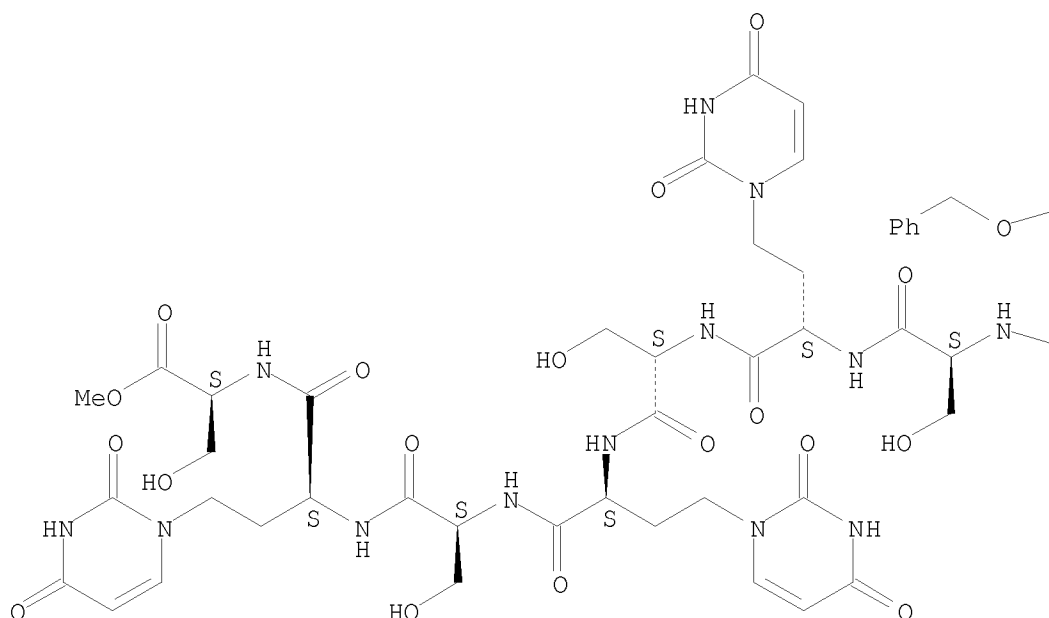


RN 174872-46-9 CAPLUS

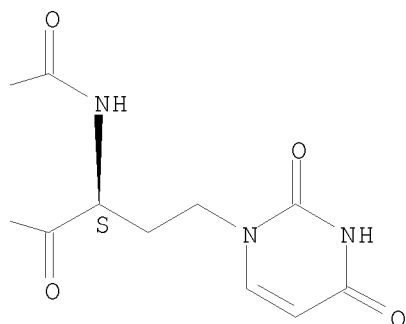
CN L-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-
 [(phenylmethoxy)carbonyl]-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-seryl-4-(3,4-dihydro-2,4-
 dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

PAGE 1-A

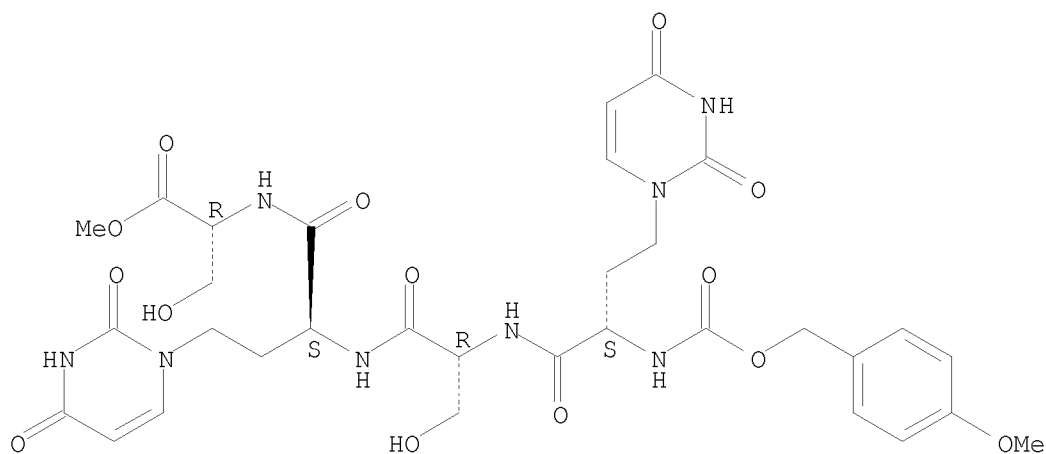


PAGE 1-B



RN 174872-47-0 CAPLUS
 CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[(4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

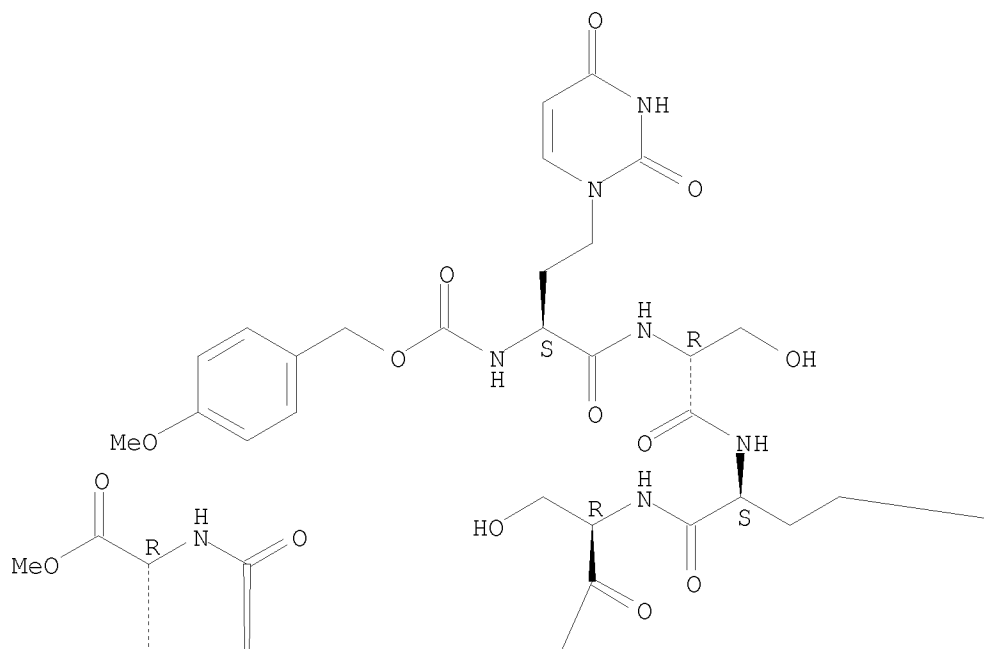


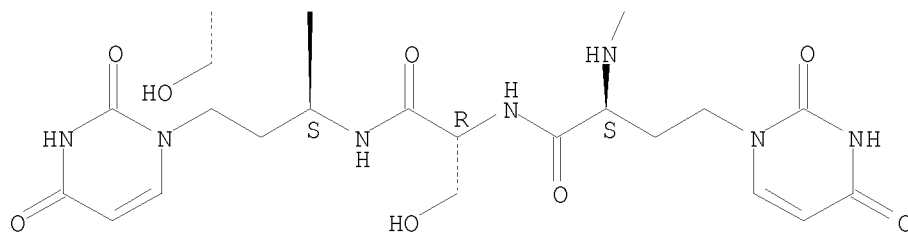
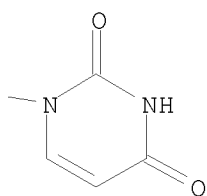
RN 174872-48-1 CAPLUS

CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

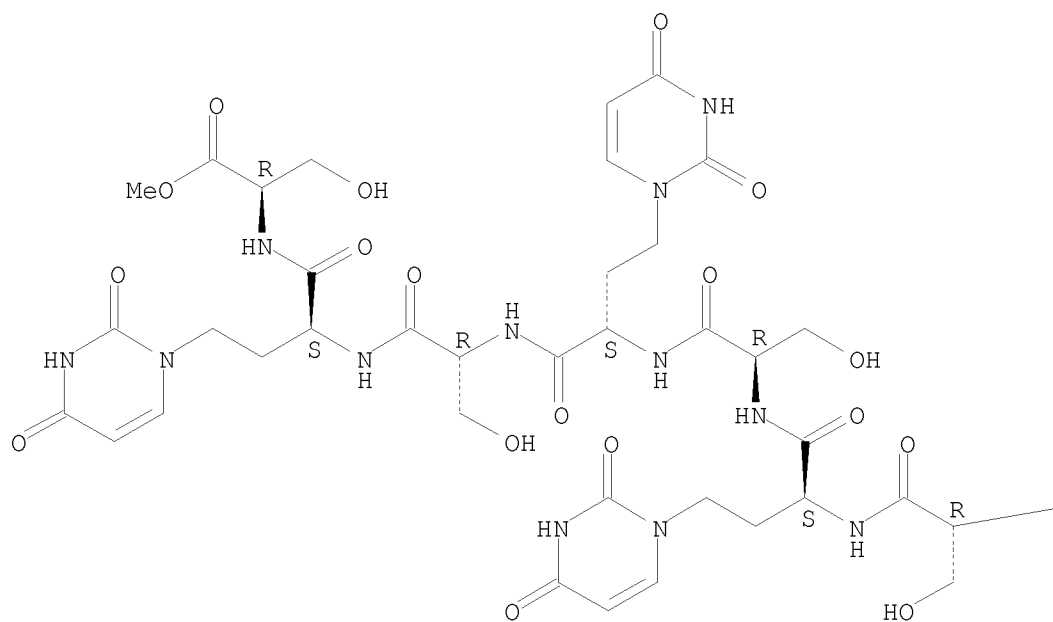




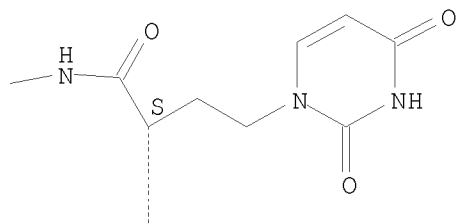
RN 174872-49-2 CAPLUS

CN D-Serine, 4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-N-[[(4-methoxyphenyl)methoxy]carbonyl]-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-D-seryl-4-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

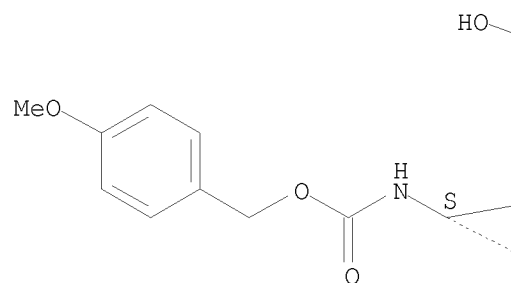
Absolute stereochemistry.



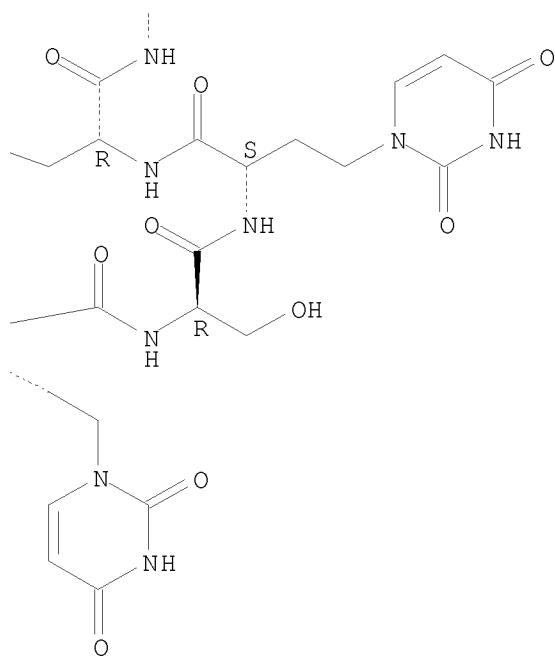
PAGE 1-B



PAGE 2-A



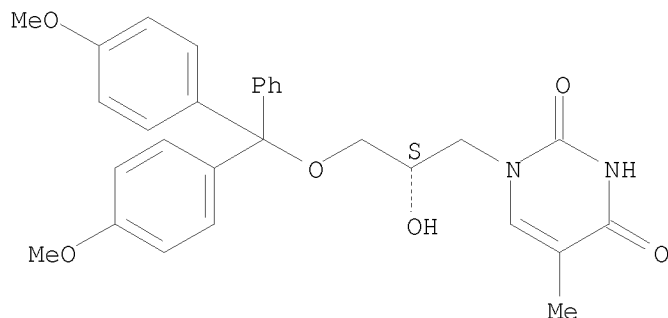
PAGE 2-B



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L11 ANSWER 80 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:10972 CAPLUS
 DN 124:261557
 OREF 124:48475a,48478a
 TI Synthesis of a carboxamide linked T*T dimer with an acyclic nucleoside unit and its incorporation in oligodeoxynucleotides
 AU Larsen, Erik; Danel, Krzysztof; Pedersen, Erik B.
 CS Dep. of Chemistry, Odense University, Odense, DK-5230, Den.
 SO Nucleosides & Nucleotides (1995), 14(9 & 10), 1905-12
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Dekker
 DT Journal
 LA English
 AB A T*T dimer with a 2'-OCH₂CH₂NHCO-4' linkage connecting two nucleoside units was prepared by condensation of (S)-1-[2-(2-aminoethoxy)-3-(4,4'-dimethoxytrityloxy)propyl]thymine and 1,2-dideoxy-1-thyminy-β-D-erythro-pentofuranuronic acid. The T*T dimer was incorporated in oligodeoxynucleotides and investigated for hybridization to DNA.
 IT 168332-12-5P 168772-58-5P 168772-59-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of a carboxamide linked dinucleotide with an acyclic nucleoside unit and its incorporation in oligodeoxynucleotides)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]propyl]-5-methyl- (CA INDEX NAME)

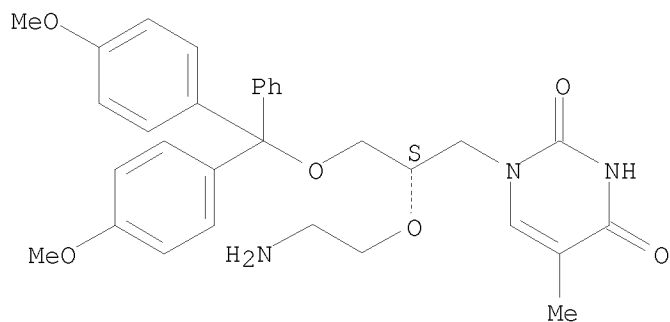
Absolute stereochemistry. Rotation (-).



RN 168772-58-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(2-aminoethoxy)-3-[bis(4-methoxyphenyl)phenylmethoxy]propyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

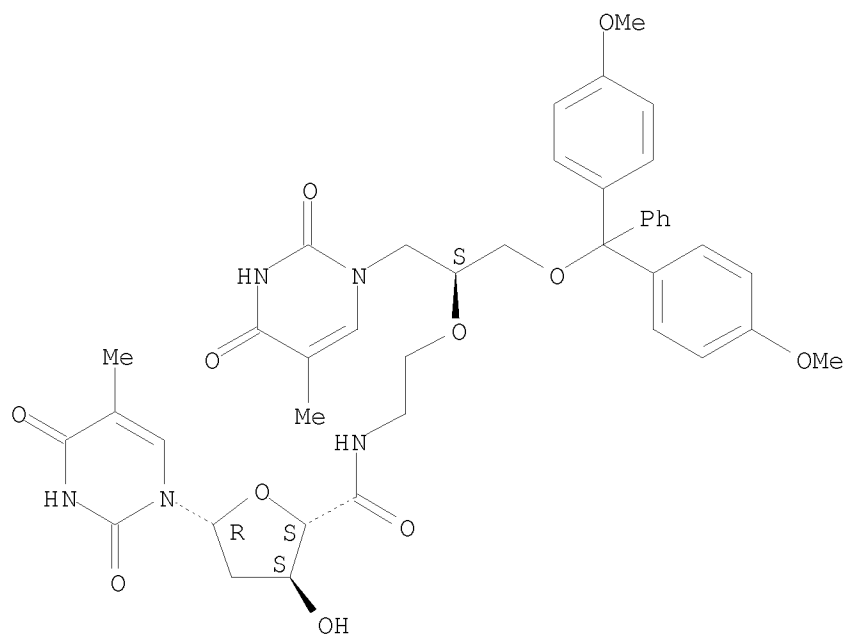
10/585,283



RN 168772-59-6 CAPLUS

CN β -D-erythro-Pentofuranuronamide,
N-[2-[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]ethoxy]ethyl]-1,2-dideoxy-1-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L11 ANSWER 81 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:982328 CAPLUS

DN 124:30276

OREF 124:5823a,5826a

TI Synthesis of acyclic oligonucleotides as antiviral and antiinflammatory agents and inhibitors of phospholipase A2

IN Cook, Phillip Dan; Acevedo, Oscar L.; Davis, Peter W.; Ecker, David J.; Hebert, Normand

PA Isis Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 126 pp.

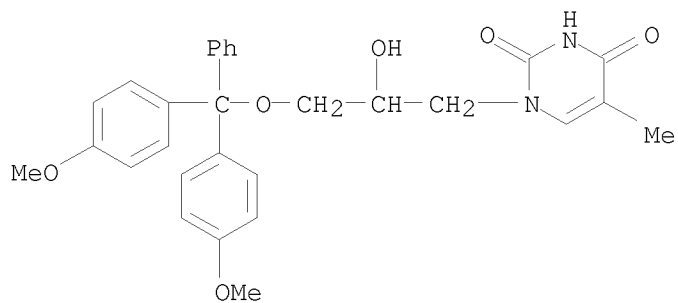
CODEN: PIXXD2

DT Patent

LA English

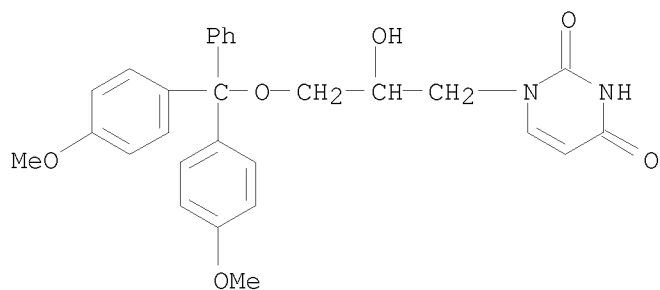
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9518820	A1	19950713	WO 1995-US449	19950111
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6448373	B1	20020910	US 1994-179970	19940111
	CA 2180867	A1	19950713	CA 1995-2180867	19950111
	CA 2180867	C	20041214		
	EP 739351	A1	19961030	EP 1995-908491	19950111
	EP 739351	B1	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09508105	T	19970819	JP 1995-518700	19950111
	JP 3072127	B2	20000731		
	AT 215960	T	20020415	AT 1995-908491	19950111
	US 5886177	A	19990323	US 1996-669506	19960808
	US 20030065146	A1	20030403	US 2002-162365	20020603
PRAI	US 1994-179970	A	19940111		
	WO 1995-US449	W	19950111		
OS	MARPAT 124:30276				
AB	Title ethylene glycol acyclic oligonucleotides I (Q = alkyl, alkenyl, alkynyl, alkylamino, ester amide, thio ester, imine, sulfonyl; X = H, PO3H2, polymer support; Y = H, protected hydroxyl; Z = nucleobase, polyether, polyethylene glycol, N-containing heterocycle; n = 0, Z = nucleobase, alkylamine; m = 1-6) were prepared as antiviral and antiinflammatory agents and inhibitors of phospholipase A2.				
IT	171406-23-8P	171406-29-4P			
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(synthesis of acyclic oligonucleotides as antiviral and antiinflammatory agents and inhibitors of phospholipase A2)				
RN	171406-23-8	CAPLUS			
CN	2,4(1H,3H)-Pyrimidinedione, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)				



RN 171406-29-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidin-2-one, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 82 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:957653 CAPLUS

DN 124:146715

OREF 124:27305a,27308a

TI Syntheses of novel nucleoside dimer analogs containing an acyclic nucleoside and a carbamate linkage

AU Obika, Satoshi; Takashima, Yoshihiro; Matsumoto, Yasuhide; Kuromaru, Kiyonori; Imanishi, Takeshi

CS Fac. Pharm. Sci., Osaka Univ., Osaka, 565, Japan

SO Tetrahedron Letters (1995), 36(47), 8617-20

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier

DT Journal

LA English

AB Novel acyclic nucleoside analogs, e.g. I (T = thymine), were synthesized and successfully incorporated into heterolytic nucleoside dimers, e.g. II, containing natural nucleosides and a carbamate linkage.

IT 173465-66-2

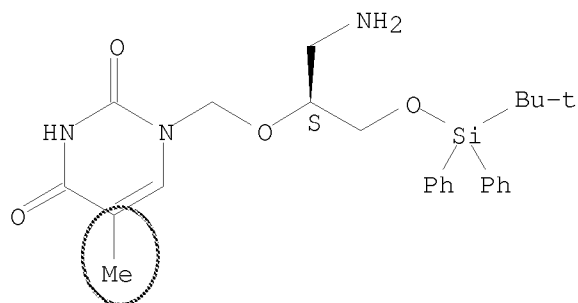
RL: RCT (Reactant); RACT (Reactant or reagent)

(syntheses of nucleoside dimer analogs containing an acyclic nucleoside and carbamate linkage)

RN 173465-66-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-amino-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 173465-40-2P 173465-43-5P 173465-46-8P

173465-47-9P 173465-48-0P 173465-49-1P

173465-60-6P 173465-62-8P 173465-64-0P

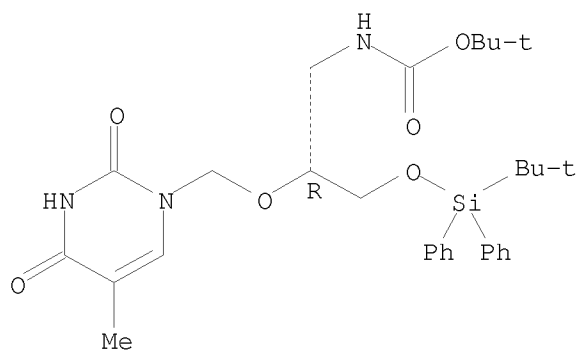
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(syntheses of nucleoside dimer analogs containing an acyclic nucleoside and carbamate linkage)

RN 173465-40-2 CAPLUS

CN Carbamic acid, [2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]-, 1,1-dimethylethyl ester, (R)-(9CI) (CA INDEX NAME)

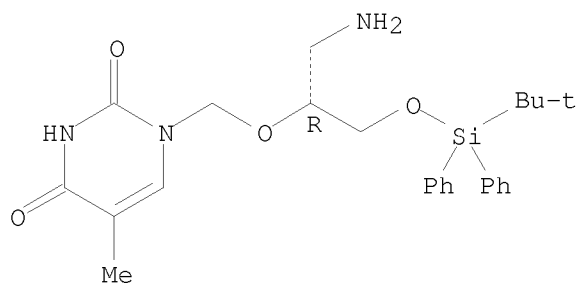
Absolute stereochemistry.



RN 173465-43-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-amino-1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

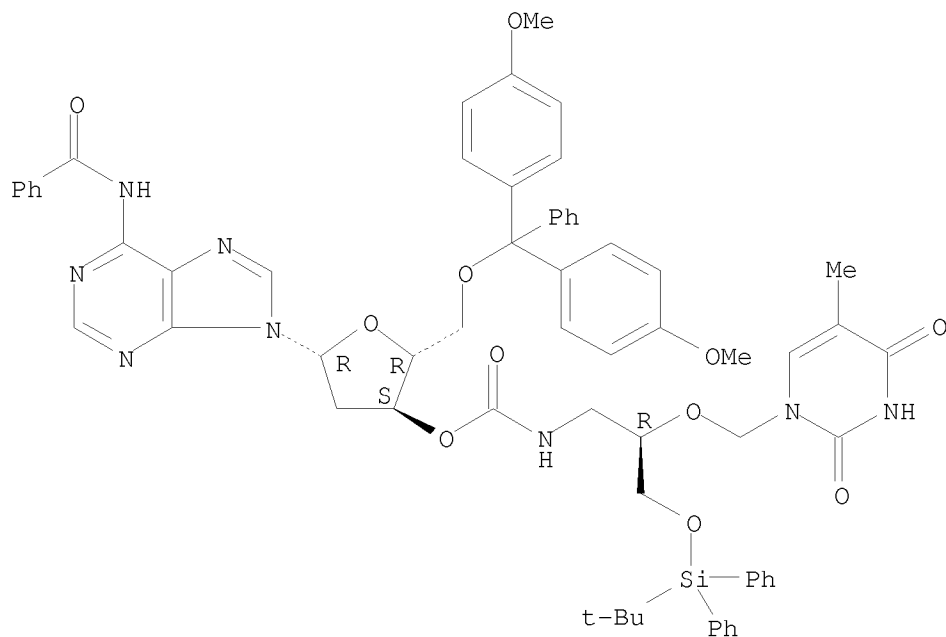


RN 173465-46-8 CAPLUS

CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-, 3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

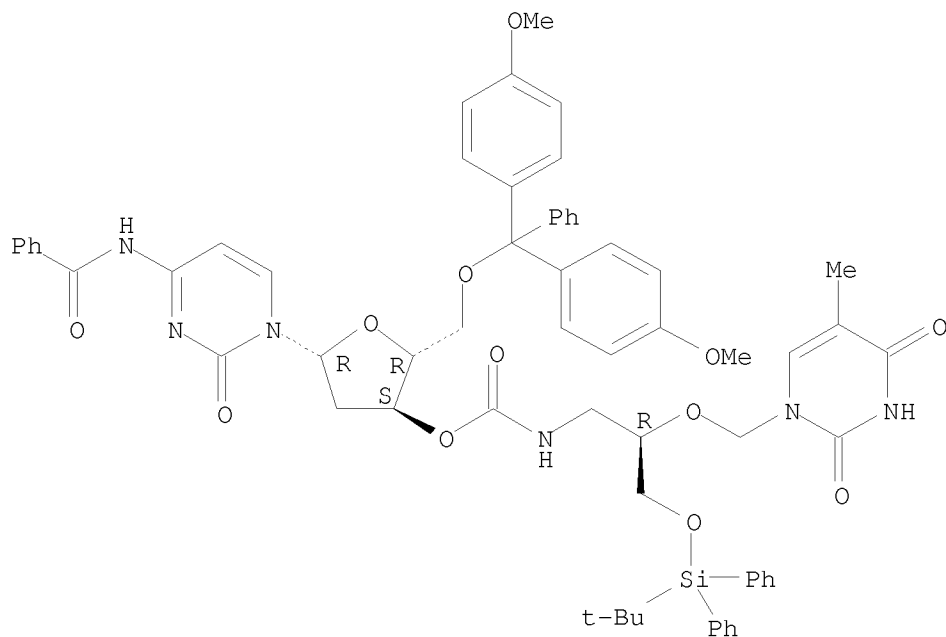
Absolute stereochemistry.



RN 173465-48-0 CAPLUS

CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-,
3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-
[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA
INDEX NAME)

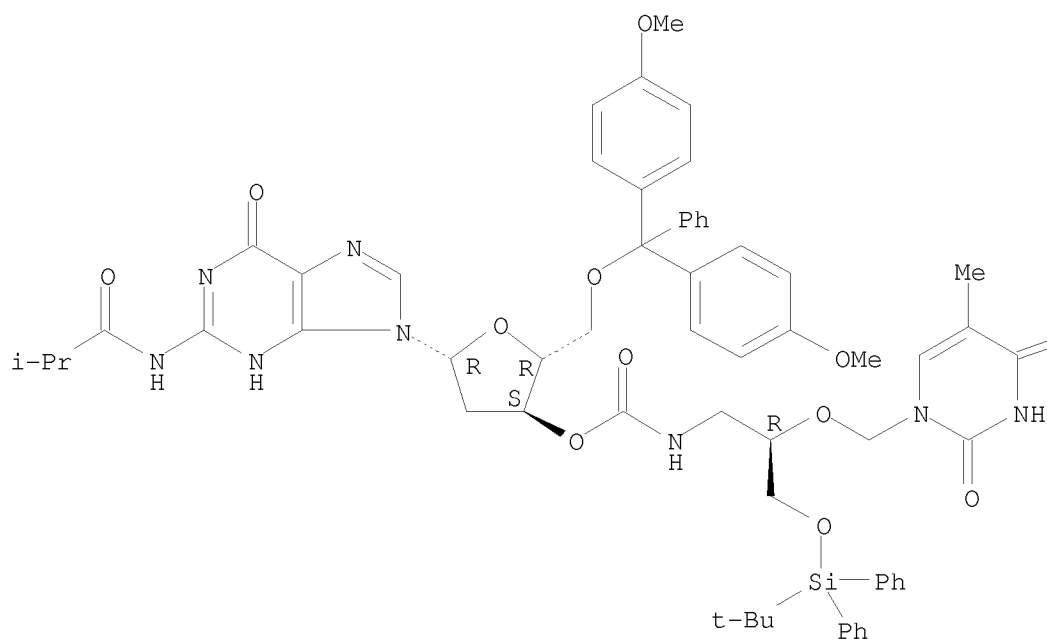
Absolute stereochemistry.



RN 173465-49-1 CAPLUS

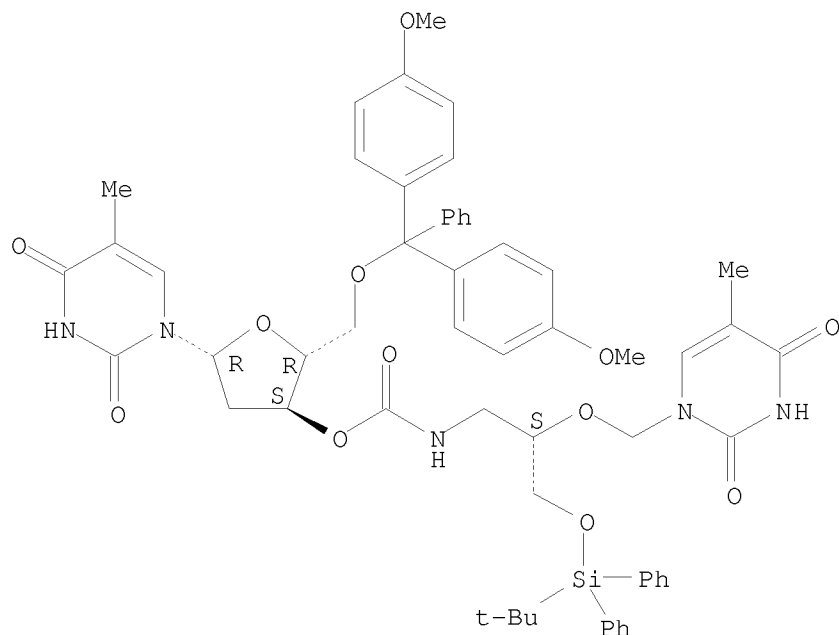
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-N-(2-methyl-1-oxopropyl)-, 3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.


 =O

RN 173465-60-6 CAPLUS
 CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-,
 3'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-
 [[(1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (S)- (9CI) (CA
 INDEX NAME)

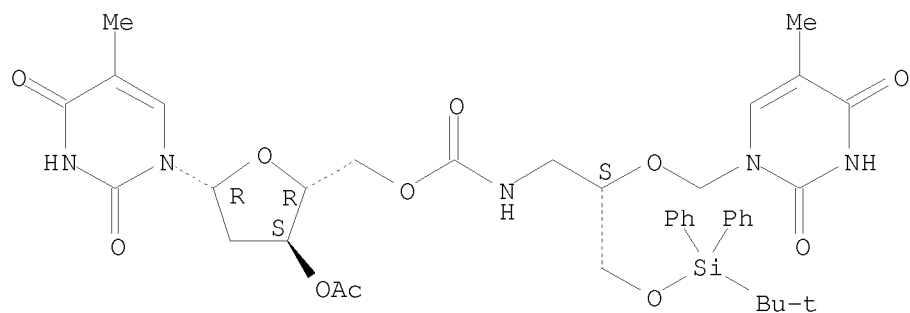
Absolute stereochemistry.



RN 173465-62-8 CAPLUS

CN Thymidine, 3'-acetate 5'-[[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[1,1-dimethylethyl)diphenylsilyl]oxy]propyl]carbamate], (S)- (9CI) (CA INDEX NAME)

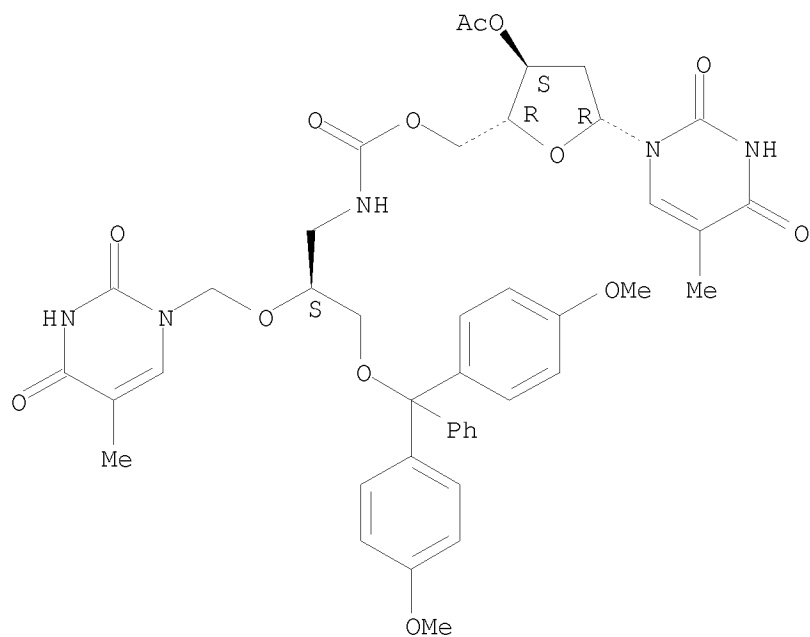
Absolute stereochemistry.



RN 173465-64-0 CAPLUS

CN Thymidine, 3'-acetate 5'-[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]carbamate], (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 173465-65-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(syntheses of nucleoside dimer analogs containing an acyclic nucleoside and carbamate linkage)

RN 173465-65-1 CAPLUS

CN Thymidine, 5'-[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]carbamate], (S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



AN 1995:820573 CAPLUS

AN 1995:820573 CAPLUS

DN 123:257406

OREF 123:46059a, 46062a

IN Loebberding, Antonius; Mielke, Burkhard; Schwemler, Chrostoph; Schwenner,
Eckhardt; Stropp, Udo; Springer, Wolfgang; Kretschmer, Axel; Poetter,
Thorsten

PA Bayer A.-G., Germany

SO Ger. Offen., 46 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4331011	A1	19950316	DE 1993-4331011	19930913
	EP 646596	A1	19950405	EP 1994-113573	19940831
	EP 646596	B1	19990526		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, SE				
	AT 180494	T	19990615	AT 1994-113573	19940831
	ES 2131612	T3	19990801	ES 1994-113573	19940831
	AU 9471619	A	19950323	AU 1994-71619	19940901
	JP 07112969	A	19950502	JP 1994-238619	19940907
	CA 2131760	A1	19950314	CA 1994-2131760	19940909
	US 5849893	A	19981215	US 1996-719048	19960924

PRAI	DE	1993-4331011	A	19930913
	US	1994-300910	A3	19940906

OS MARPAT 123:257406

AB Title compds. [I; A = CO, CHR, CRR'; R, R' = H, Oh, alkyl, aralkyl, aryl; B = H, OH, alkanoyl, DNA intercalator, aryl, heterocycllyl, (modified) naturally occurring nucleobase; C = CH, CR; D = NH, CH₂, CHR, CRR'; E = NR, CHR, CRR', O, S; A can be bonded to E via (CH₂)_n; n = 0-2; F = CH₂, CO, SO₂, SO, CS; Q = (CR₁R₂)_m; m = 0-2; R₁, R₂ = (un)natural amino acid residue; G can be bonded to Q by (CH₂)_n; G = NH, NR, O, S; M = CH₂, CO, SO₂, SO, CS; L = (CH₂)_p, CHR, CRR'; p = 0-2; K, N = H, carrier system, reporter ligand, solubility enhancing group; s = 1-30], were prepared for control

of gene expression (no data). Thus, H-(Q1)3-Gly-OH was prepared by solid phase synthesis using BOC-protected reactants (preparation given) on phenylacetamidomethyl resin. Title compds. are said to have antiviral activity.

IT 168264-38-8P 168264-39-9P 168264-44-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

```
(preparation of nucleic acid-binding oligomers with amino acid-containing  
backbones and nucleobase-containing side chains for therapy and diagnosis
```

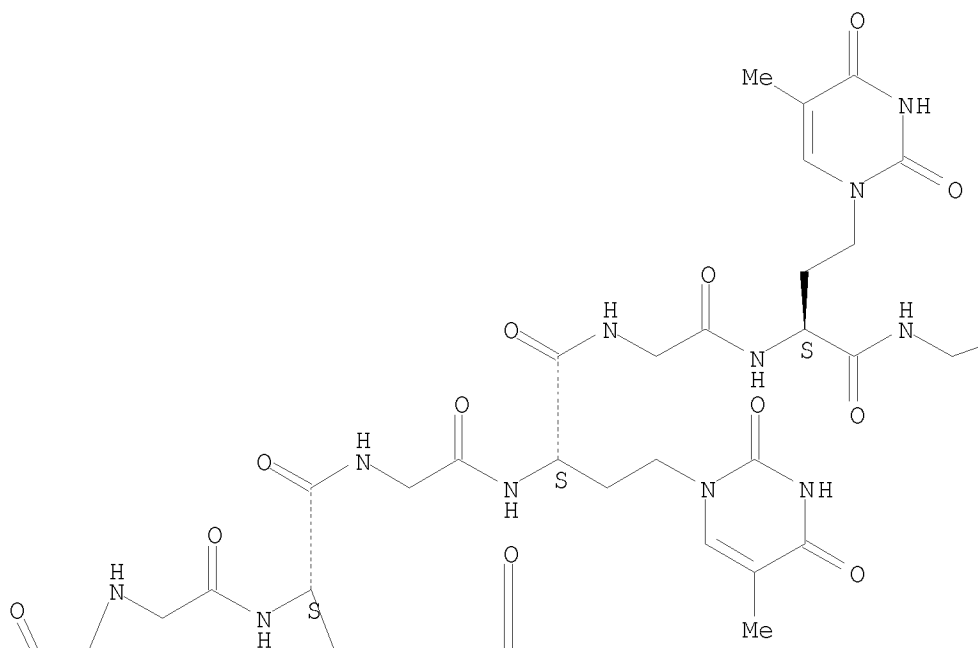
RN 168264-38-8 CAPLUS

CN L-Alanine, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-alanyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-

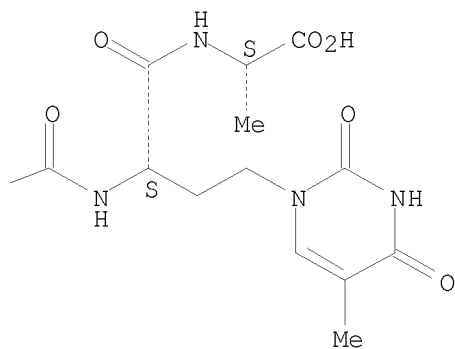
methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

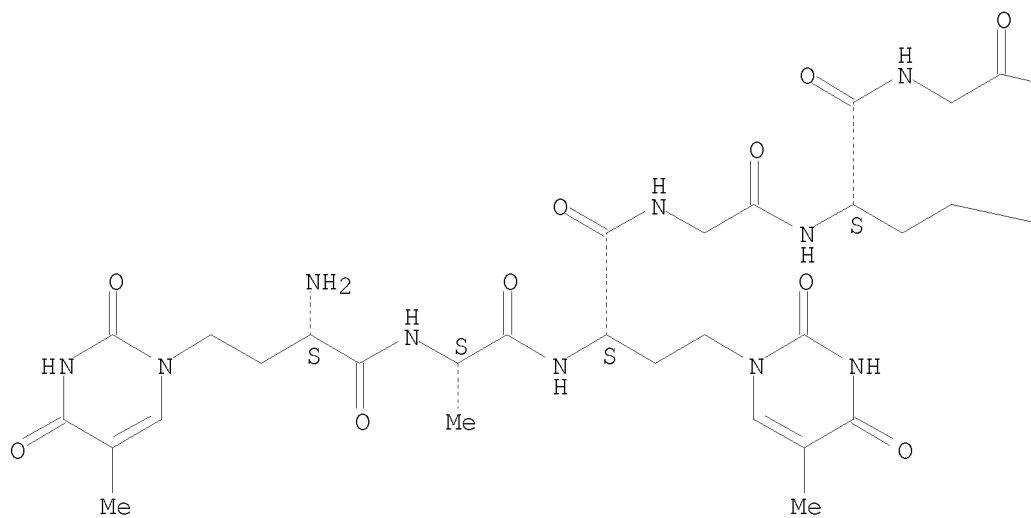
PAGE 1-B



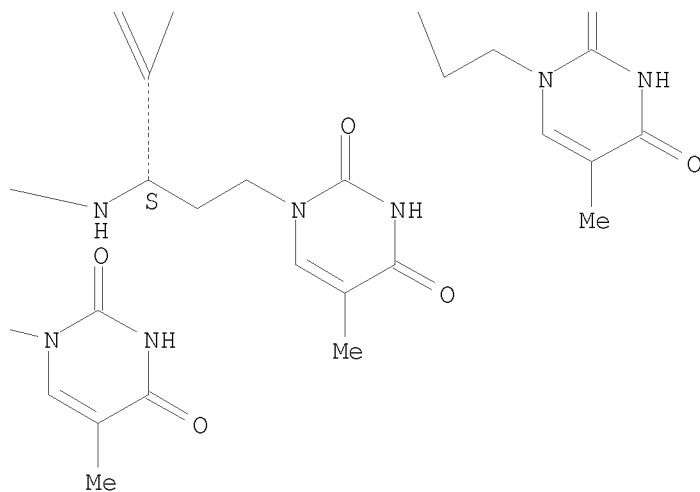
PAGE 1-C



PAGE 2-A



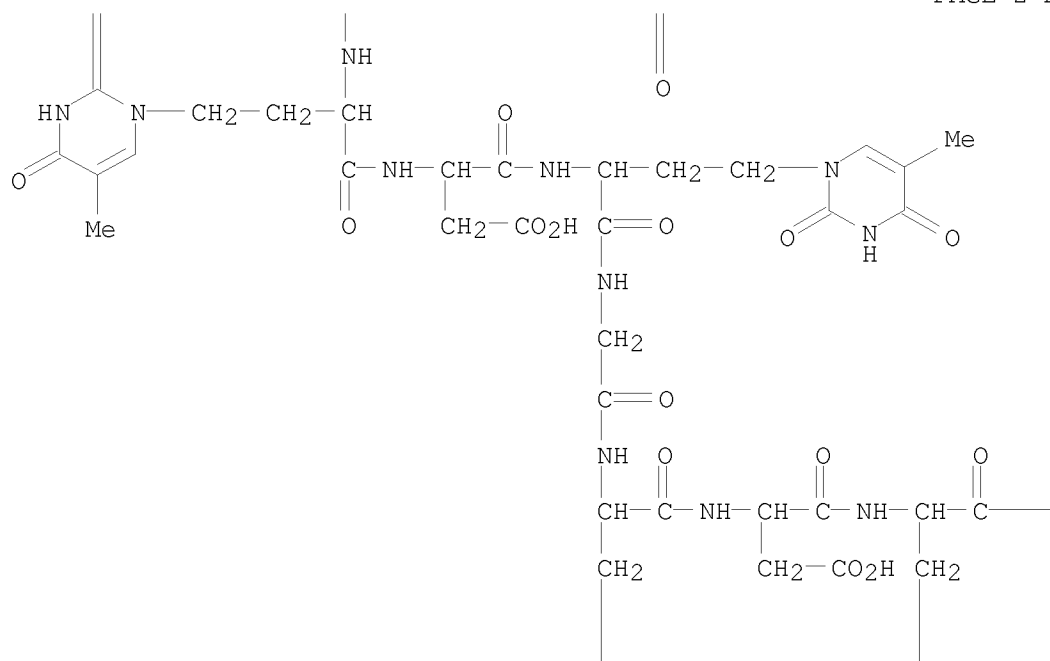
PAGE 2-B



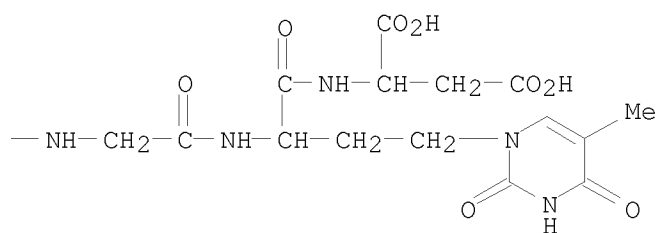
RN 168264-39-9 CAPLUS
 CN L-Aspartic acid, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L- α -aspartyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L- α -aspartyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoylglycyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L- α -aspartyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-

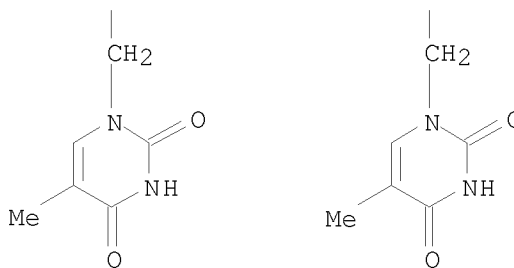
[illegible]CC1=CN(C(=O)N1C(=O)N)CC2=CC=CC=C2

PAGE 2-A



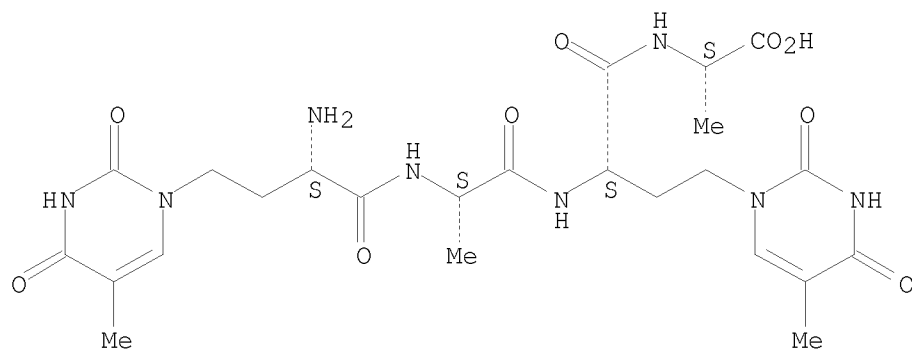
PAGE 2-B





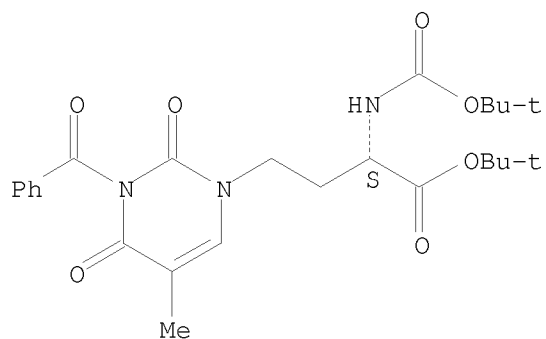
RN 168264-44-6 CAPLUS
 CN L-Alanine, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl-L-alanyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-aminobutanoyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 168264-02-6P 168264-03-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of nucleic acid-binding oligomers with amino acid-containing backbones and nucleobase-containing side chains for therapy and diagnosis)
 RN 168264-02-6 CAPLUS
 CN 1(2H)-Pyrimidinebutanoic acid, 3-benzoyl-α-[[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-5-methyl-2,4-dioxo-, 1,1-dimethylethyl ester, (αS)- (CA INDEX NAME)

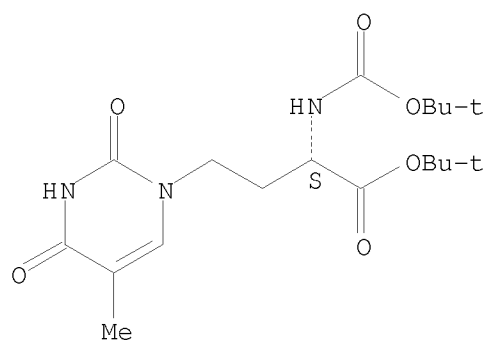
Absolute stereochemistry.



RN 168264-03-7 CAPLUS

CN 1(2H)-Pyrimidinebutanoic acid, α -[[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-5-methyl-2,4-dioxo-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

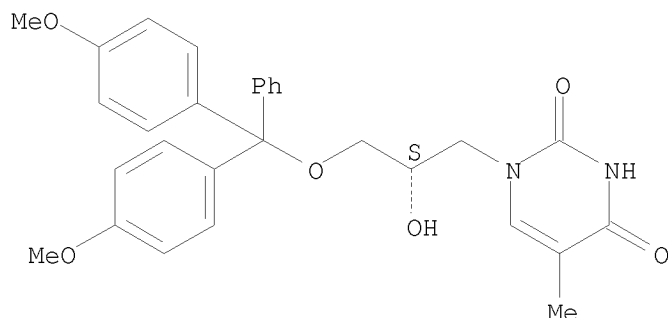
Absolute stereochemistry.



OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L11 ANSWER 84 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:631154 CAPLUS
 DN 123:257226
 OREF 123:46023a,46026a
 TI Evaluation of oligonucleotides with novel modifications
 AU Larsen, Erik; Danel, Krzysztof; Abdel-Aleem, Abdel-Aleem H.; Nielsen, Poul; Wengel, Jesper; Pedersen, Erik B.
 CS Dep. of Chemistry, Odense Univ., Odense, DK-5230, Den.
 SO Nucleosides & Nucleotides (1995), 14(3-5), 1097-100
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Dekker
 DT Journal
 LA English
 AB Oligodeoxynucleotides modified with carboxamide linked dimeric nucleotide and an acyclic nucleoside were prepared and investigated for their hybridization properties toward DNA.
 IT 168332-12-5P 168772-58-5P 168772-59-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of carboxamide linked oligodeoxyribonucleotides and hybridization toward DNA)
 RN 168332-12-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

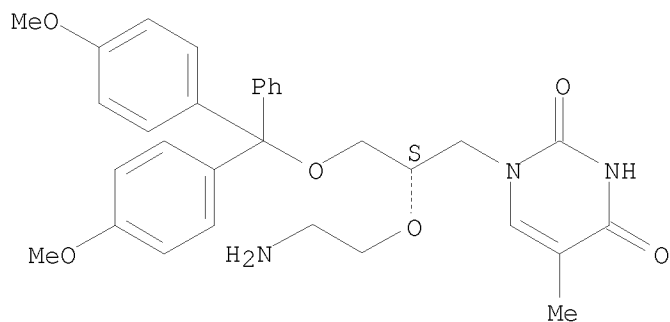
Absolute stereochemistry. Rotation (-).



RN 168772-58-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(2-aminoethoxy)-3-[bis(4-methoxyphenyl)phenylmethoxy]propyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

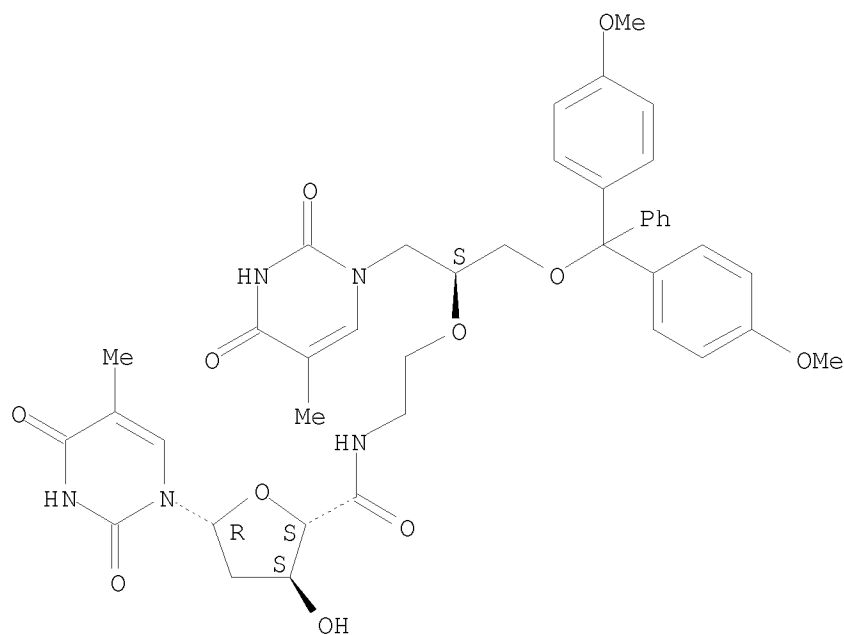
10/585,283



RN 168772-59-6 CAPLUS

CN β -D-erythro-Pentofuranuronamide,
N-[2-[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]ethoxy]ethyl]-1,2-dideoxy-1-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-, (S)- (9CI) (CA INDEX NAME)

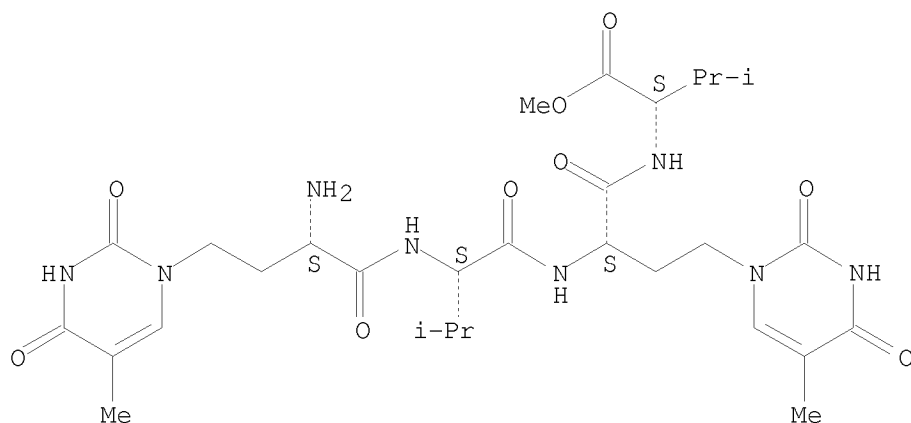
Absolute stereochemistry.



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L11 ANSWER 85 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:631089 CAPLUS
 DN 123:286627
 OREF 123:51386h,51387a
 TI Peptide analogs of DNA consisting of L- α -amino- γ -thymine
 butyric acid and L-valine subunits
 AU Ceulemans, G.; Khan, K.; Van Schepdael, A.; Herdewijn, P.
 CS Rega Inst. for Medical Res., Katholieke Univ. Leuven, Louvain, B-3000,
 Belg.
 SO Nucleosides & Nucleotides (1995), 14(3-5), 813-16
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Dekker
 DT Journal
 LA English
 AB Reaction of N-Boc-L-homoserine benzylester with N3-benzoylthymine under
 Mitsunobu conditions afforded N-Boc-L- α -amino- γ -N3-
 benzoylthymine butyric acid benzyl ester. After removal of the N-benzoyl
 and O-benzyl protecting group, this compound was used in solution phase peptide
 synthesis.
 IT 169515-42-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (peptide analogs of DNA consisting of aminothyminebutyric acid and
 valine subunits)
 RN 169515-42-8 CAPLUS
 CN L-Valine, 4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-L-2-
 aminobutanoyl-L-valyl-4-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-
 L-2-aminobutanoyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L11 ANSWER 86 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:476641 CAPLUS

DN 123:257237

OREF 123:46023a,46026a

TI Synthesis and evaluation of oligodeoxynucleotides containing acyclic nucleosides: introduction of three novel analogs and a summary

AU Nielsen, Poul; Dreioe, Lars H.; Wengel, Jesper

CS Dep. Chem., Odense Univ., Odense, DK-5230, Den.

SO Bioorganic & Medicinal Chemistry (1995), 3(1), 19-28

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier

DT Journal

LA English

AB Novel flexible oligodeoxynucleotides containing (S)-1-(2,3-dihydroxypropyl)thymine or 2',3'-seco-thymidine nucleoside analogs were synthesized on an automated DNA-synthesizer. Oligodeoxynucleotides with one, two or three acyclic nucleosides incorporated in the middle or in the ends of 17-mers have been evaluated. 3'-End-modified oligomers were significantly stabilized towards 3'-exonucleolytic degradation compared to unmodified analogs and showed acceptable hybridization properties as measured by UV expts. For oligodeoxynucleotide analogs containing the three novel acyclic monomers in the middle, a more pronounced reduction in duplex stability was observed. All oligodeoxynucleotides containing acyclic nucleoside analogs made so far are evaluated with respect to stability towards 3'-exonucleolytic degradation and hybridization properties.

IT 168332-12-5P 168332-14-7P

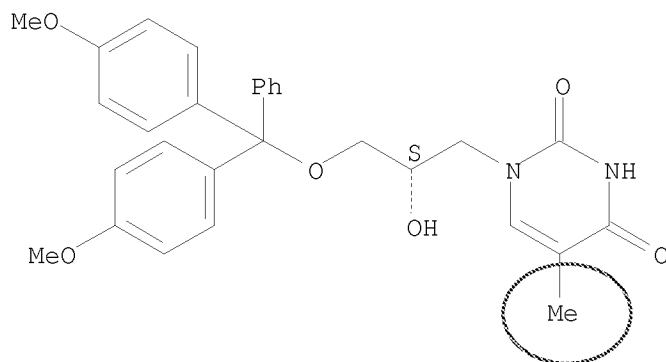
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and exonuclease stability of oligodeoxyribonucleotides containing acyclic nucleosides)

RN 168332-12-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

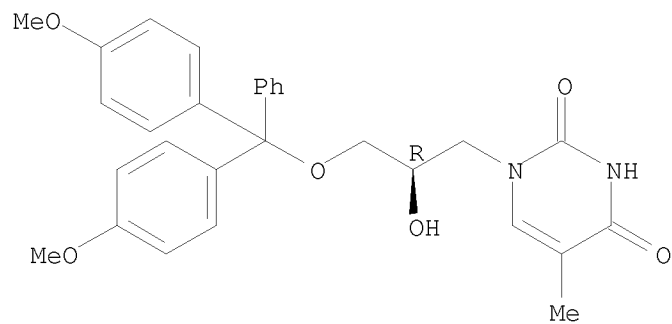
Absolute stereochemistry. Rotation (-).



RN 168332-14-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-5-methyl- (CA INDEX NAME)

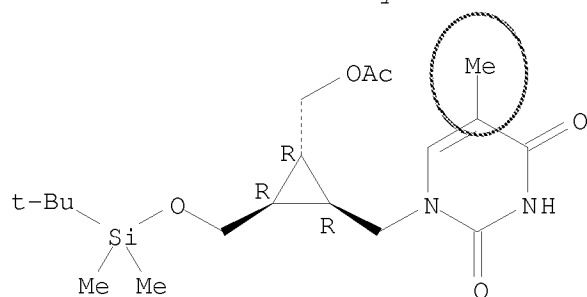
Absolute stereochemistry. Rotation (+).



OSC.G 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)

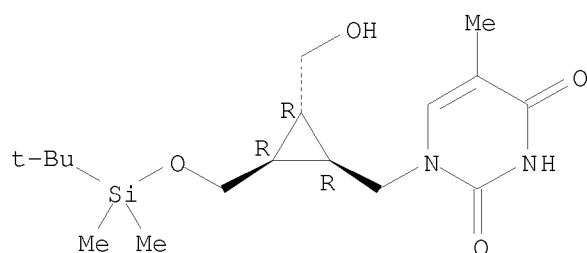
L11 ANSWER 87 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:270807 CAPLUS
 DN 123:199277
 OREF 123:35601a,35604a
 TI Synthesis of potentially antiviral cyclopropyl nucleosides
 AU Cluet, F.; Haudrechy, A.; Le Ber, P.; Sinay, P.; Wick, A.
 CS Synthelabo Recherche, Z.I. Limay-Porcheville, Gargenville, 78440, Fr.
 SO Synlett (1994), (11), 913-15
 CODEN: SYNLES; ISSN: 0936-5214
 PB Thieme
 DT Journal
 LA English
 AB Novel rigid cyclopropyl nucleosides I ($R = N3$, $R1 = OH$; $R = OH$, $R1 = N3$) have been prepared. The thymine heterocycle was created through a novel mild mercuri-intramol cyclocondensation reaction or coupled with a selectively trisubstituted cyclopropane ring.
 IT 167627-79-4P 167627-82-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of potentially antiviral cyclopropyl nucleosides)
 RN 167627-79-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[(acetyloxy)methyl]-3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]cyclopropyl]methyl]-5-methyl-, (1 α ,2 β ,3 α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 167627-82-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-3-(hydroxymethyl)cyclopropyl]methyl]-5-methyl-, (1 α ,2 α ,3 β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



10/585,283

OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L11 ANSWER 88 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:92509 CAPLUS

DN 122:240299

OREF 122:43933a,43936a

TI Synthesis and antiviral study of acyclic analogs of 3'-azido, 3'-amino, and 3'-fluoro-3'-deoxythymidine, and of HEPT analogs

AU Trinh, Minh-Chau; Florent, Jean-Claude; Grierson, David S.; Monneret, Claude

CS Sect. Biol., Inst. Curie, Paris, F-75231, Fr.

SO Synthesis (1994), (9), 939-43

CODEN: SYNTBF; ISSN: 0039-7881

DT Journal

LA English

AB Several new acyclic nucleoside HEPT analogs I (R = F, N₃, OH) have been synthesized from racemic epi-chlorohydrin. This involves epoxide opening followed by chain elongation with iodomethyl Ph sulfide and subsequent coupling of the phenylthioacetal with thymine. None of these nucleosides showed any significant inhibitory activity against HIV.

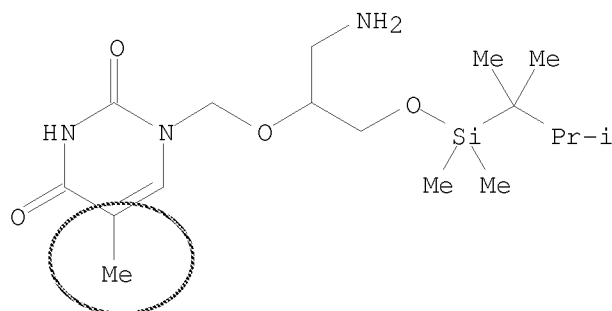
IT 162314-55-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and antiviral study of acyclic analogs of azido amino and fluorodeoxythymidine and of HEPT analogs)

RN 162314-55-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-amino-1-[[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]methyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



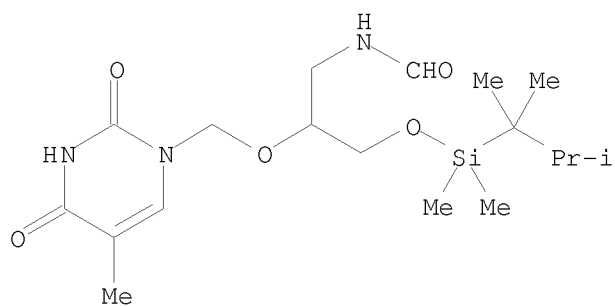
IT 162314-57-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and antiviral study of acyclic analogs of azido amino and fluorodeoxythymidine and of HEPT analogs)

RN 162314-57-0 CAPLUS

CN Formamide, N-[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]propyl]- (CA INDEX NAME)



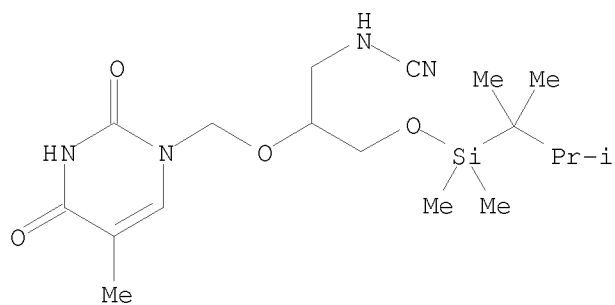
IT 162314-56-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis and antiviral study of acyclic analogs of azido amino and fluorodeoxythymidine and of HEPT analogs)

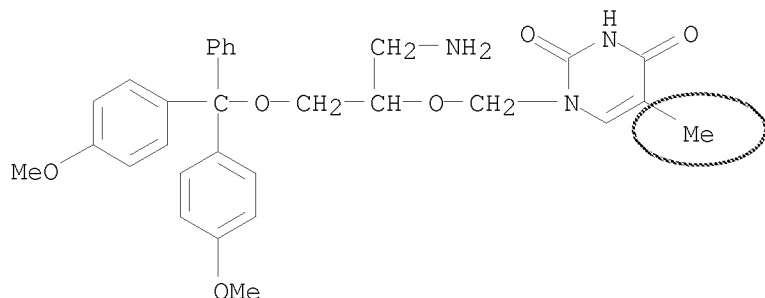
RN 162314-56-9 CAPLUS

CN Cyanamide, [2-[[3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl]methoxy]-3-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]propyl]- (9CI) (CA INDEX NAME)



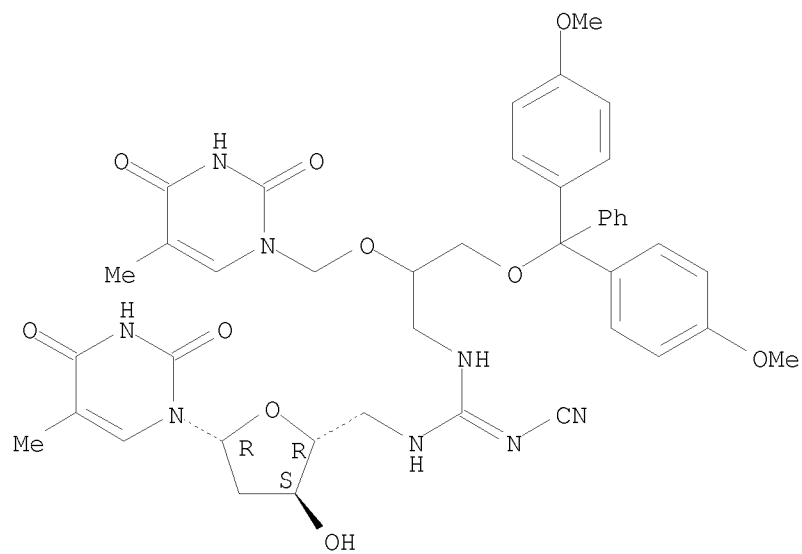
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L11 ANSWER 89 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:15565 CAPLUS
 DN 122:187987
 OREF 122:34451a,34454a
 TI Mixed oligonucleotide analogs with an acyclic carbohydrate moiety and N-cyanoguanidine functionality
 AU Pannecouque, C.; Schepers, G.; Rozenski, J.; Van Aerschot, A.; Claes, P.; Herdewijn, P.
 CS Lab. Med. Chem., Kathol. Univ. Leuven, Louvain, B-3000, Belg.
 SO Bioorganic & Medicinal Chemistry Letters (1994), 4(10), 1203-6
 CODEN: BMCLE8; ISSN: 0960-894X
 DT Journal
 LA English
 AB Mixed oligonucleotide analogs having a backbone structure with a N-cyanoguanidine functionality and an acyclic sugar moiety were synthesized. This combination, however, has a detrimental effect on duplex stability of DNA-DNA hybrids.
 IT 160998-65-2P 160998-69-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of cyanoguanidine linked acyclic oligodeoxyribonucleotide duplexes)
 RN 160998-65-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2-amino-1-[[bis(4-methoxyphenyl)phenylmethoxy)methyl]ethoxy)methyl]-5-methyl- (CA INDEX NAME)



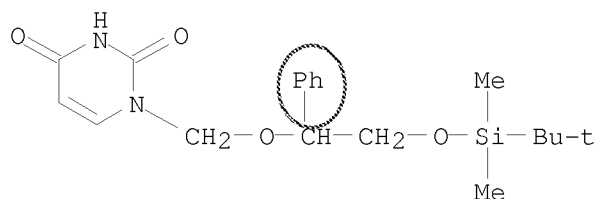
RN 160998-69-6 CAPLUS
 CN Thymidine, 5'-[[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl]amino](cyanoamino)methyl eneamino]-5'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



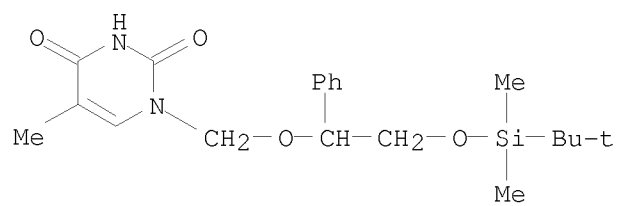
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L11 ANSWER 90 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1994:457858 CAPLUS
 DN 121:57858
 OREF 121:10449a,10452a
 TI Synthesis and anti-HIV-1 activities of 6-arylthio and
 6-arylselenoacyclonucleosides
 AU Pan, Bai Chuan; Chen, Zhi Hao; Piras, Giovanna; Dutschman, Ginger E.;
 Rowe, Elizabeth C.; Cheng, Yung Chi; Chu, Shih Hsi
 CS Div. Biol. Med., Brown Univ., Providence, RI, 02912, USA
 SO Journal of Heterocyclic Chemistry (1994), 31(1), 177-85
 CODEN: JHTCAD; ISSN: 0022-152X
 DT Journal
 LA English
 AB 6-Arylthio and 6-arylselenoacyclonucleosides were synthesized and tested
 for the ability to inhibit replication of HIV-1. Lithiation of
 acyclonucleosides with LDA followed by reaction with the electrophiles Ph
 disulfide, di-Ph diselenide, 2,2'-dipyridyl disulfide or 2,2'-dipyridyl
 diselenide afforded acyclonucleosides I [R = H, Me, Et; R1 = SePh,
 2-pyridylthio, 2-pyridylseleno; R2 = CH2Ph, cyclohexylmethyl, CHPhOH]. I
 [R2 = CHPhOH] were obtained by deprotection of I [R2 = CHPhOSiMe2CMe3].
 Dehydrated products I [R2 = CPh:CH2] were also formed during the
 reactions. I [R = Et, R1 = 2-pyridylthio, 2-pyridylseleno, R2 = CH2Ph]
 were more active against HIV-1 in both MT-2 and CEM-IW cell lines than
 AZT, DDC, DDI or D4T. The EC50 of I [R = Et, R1 = 2-pyridylthio, R2 =
 CH2Ph] against HIV-1 in CEM-IV cell was in the nanomolar range with a
 therapeutic index of 1100.
 IT 155831-61-1P 155831-62-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, in preparation of arylthio- and
 arylselenoacyclonucleosides)
 RN 155831-61-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-
 1-phenylethoxy]methyl]- (CA INDEX NAME)



RN 155831-62-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-
 1-phenylethoxy]methyl]-5-methyl- (CA INDEX NAME)

10/585,283



OSC.G 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

L11 ANSWER 91 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1993:517755 CAPLUS

DN 119:117755

OREF 119:21211a,21214a

TI Acyclic 6-phenylselenenylpyrimidine nucleosides as antiviral agents

IN Schinazi, Raymond F.

PA Baker Cummins Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 26 pp.

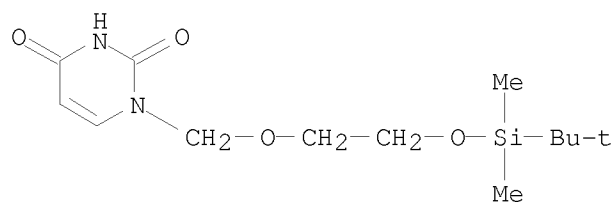
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

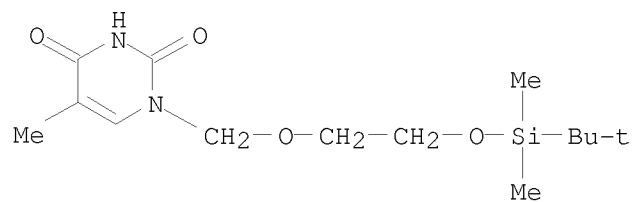
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9302044	A1	19930204	WO 1992-US3824	19920508
	W: AU, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	AU 9219944	A	19930223	AU 1992-19944	19920508
PRAI	US 1991-733346	A	19910722		
	WO 1992-US3824	A	19920508		
OS	MARPAT 119:117755				
AB	The present invention consists of title compds. I (R1 = H, halo, vinyl, halovinyl, C1-3 alkyl, haloalkyl, hydroxyalkyl; R2 = HO, H; X1 = NH, O; X2, X3 = O, S), which are useful as antiviral agents. Thus, 1-(ethoxymethyl)-6-(phenylselenenyl)thymine(I, R1 = Me, R2 = H, X1-X3 = O), prepared by sequential condensation of EtOCH2Cl with bis(trimethylsilyl)thymine, silylation with Me3CMe2SiCl, selenylation with (Me2CH)2NLi-PhSeSePh, and then desilylation, showed an EC50 of 1.2 μ M against HIV-1 in human peripheral blood mononuclear cells.				
IT	121749-94-8P	121749-98-2P			
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation and selenylation of, in synthesis of antiviral nucleoside)				
RN	121749-94-8	CAPLUS			
CN	2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)				



RN 121749-98-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

10/585,283



OSC.G	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L11 ANSWER 92 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1993:444720 CAPLUS
 DN 119:44720
 OREF 119:8046h,8047a
 TI Production and use of magnetic porous inorganic materials
 IN Wong, Yuan N.
 PA CPG, Inc., USA
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9310162	A1	19930527	WO 1992-US10113	19921117
	W: AU, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
	US 5610274	A	19970311	US 1992-952264	19920928
	AU 9331465	A	19930615	AU 1993-31465	19921117
PRAI	US 1991-794910	A1	19911120		
	WO 1992-US10113	A	19921117		

AB Magnetic porous siliceous materials of approx. particle size 1-200 μm are disclosed which are useful for solid supports in chromatog., immunoassays, synthesis, and other separation and purification procedures.

Thus, a

controlled-pore glass (CPG) slurry was treated with a com. colloidal iron oxide to produce magnetic CPG particles, which were characterized. These articles were amino-functionalized by treatment with γ -aminopropyltrimethoxysilane, and the product particles were used to immobilize antibody to hepatitis B surface antigen; the antibody-coated particles were used in an RIA. Preparation of a magnetic nucleoside CPG and of a magnetic protein A CPG is also described.

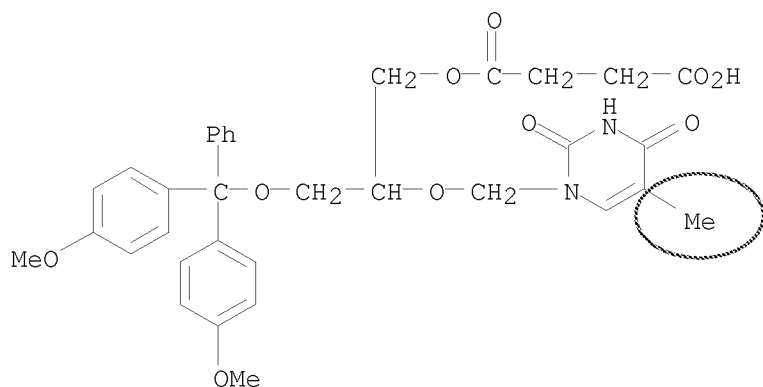
IT 120188-25-2

RL: ANST (Analytical study)

(immobilization of, magnetic controlled-pore glass particles for)

RN 120188-25-2 CAPLUS

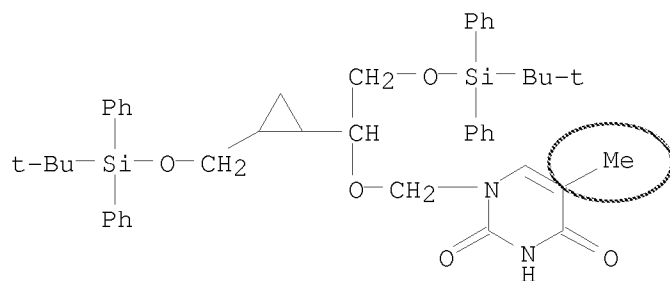
CN Butanedioic acid, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl] ester (CA INDEX NAME)



10/585,283

OSC.G	10	THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
RE.CNT	7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

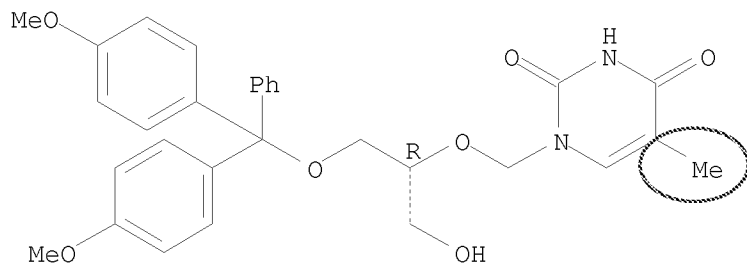
L11 ANSWER 93 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1993:102380 CAPLUS
 DN 118:102380
 OREF 118:17953a,17956a
 TI 1',2'-seco-2',3'-Dideoxynucleoside analogs: synthesis and antiviral
 evaluation of racemic trans-[(1',5'-dihydroxy
 3',4'-methylenylpent-2'-oxy)methyl]nucleosides
 AU Azymah, Muhammad; Chavis, Claude; Fruchier, Alain; Lucas, Marc; Imbach,
 Jean Louis
 CS Lab. Chim. Bio-Org., Univ. Montpellier II, Sci. Tech. Languedoc,
 Montpellier, 34095, Fr.
 SO Nucleosides & Nucleotides (1992), 11(9), 1607-20
 CODEN: NUNUD5; ISSN: 0732-8311
 DT Journal
 LA English
 OS CASREACT 118:102380
 AB Reaction of (+)but-3-en-1,2-diol with N2CHCO2Et afforded two
 cyclopropyl compds. I. Their relative trans stereochem. at C-2 and C-3
 has been determined by high-field and computational NMR spectroscopy. Title
 racemic nucleosides II (B = adenine, cytosine, guanine, thymine) have been
 obtained through a regiospecific alkylation procedure and their antiviral
 evaluation is reported.
 IT 146061-97-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and desilylation of)
 RN 146061-97-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-
 1-[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]cyclopropyl]ethoxy]met
 hyl]-5-methyl- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

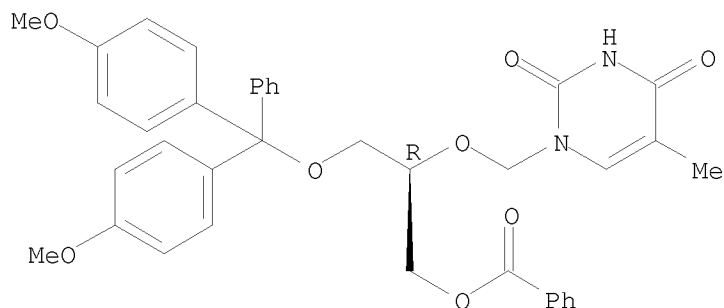
L11 ANSWER 94 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:551267 CAPLUS
 DN 117:151267
 OREF 117:26221a,26224a
 TI Isotactic glycerol oligothymidylate. A convenient preparation of (R)- and (S)-1',2'-seco-2'-nor-thymidine
 AU Azymah, Muhammad; Chavis, Claude; Lucas, Marc; Morvan, Francois; Imbach, Jean Louis
 CS Lab. Chim. Bio-Org., Univ. Montpellier II, Sci. Tech. Languedoc, Montpellier, 34095, Fr.
 SO Nucleosides & Nucleotides (1992), 11(6), 1241-55
 CODEN: NUNUD5; ISSN: 0732-8311
 DT Journal
 LA English
 OS CASREACT 117:151267
 AB (R)- And (S)-dimethoxytrityl derivs. of 1',2'-seco-2'-nor-thymidine were synthesized in an efficient way. Isotactic dodecaoligoglycerothymidylate was obtained by a solid support phosphoramidite approach. The lack of hybridization with poly rA makes this acyclic oligonucleotide useless as antisense or sense agent.
 IT 143381-08-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and benzoylation of)
 RN 143381-08-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



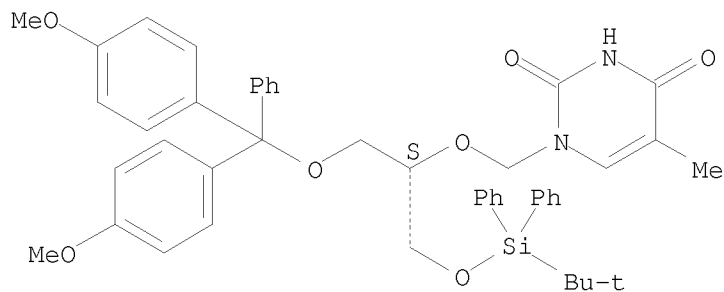
IT 143381-05-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and debenzoylation of)
 RN 143381-05-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(benzoyloxy)-1-[[bis(4-methoxyphenyl)phenylmethoxy]methyl]ethoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



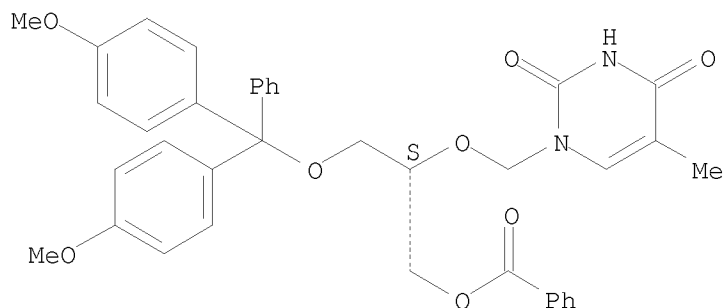
IT 143381-07-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and desilylation of)
 RN 143381-07-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-
 [[[1,1-dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-,
 (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



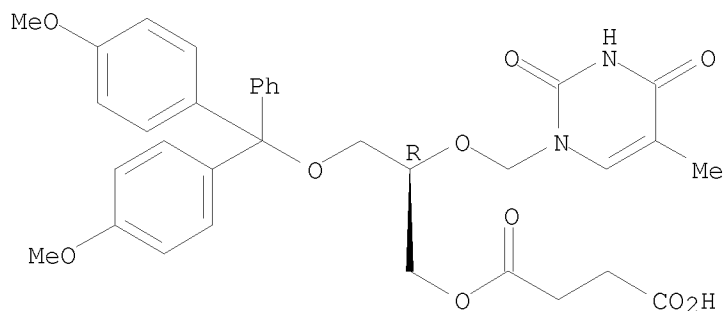
IT 143381-09-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and detritylation of)
 RN 143381-09-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(benzoyloxy)-1-[[bis(4-
 methoxyphenyl)phenylmethoxy]methyl]ethoxy]methyl]-5-methyl-, (S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



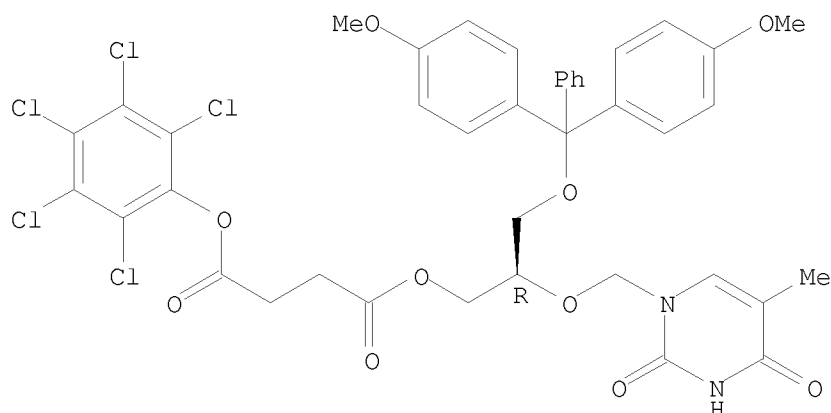
IT 143381-12-8DP, polymer support 143381-14-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, in synthesis of oligodeoxyribonucleotide)
 RN 143381-12-8 CAPLUS
 CN Butanedioic acid, mono[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-
 dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl] ester, (R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



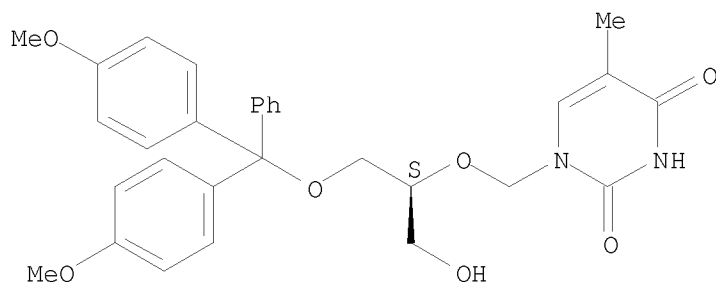
RN 143381-14-0 CAPLUS
 CN Butanedioic acid, 3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-
 methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl pentachlorophenyl ester,
 (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 124318-82-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, in synthesis of oligonucleotide)
 RN 124318-82-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[(1S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-
 1-(hydroxymethyl)ethoxy]methyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

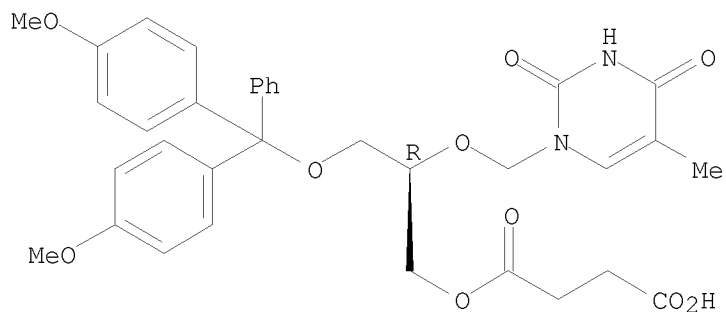


IT 143381-13-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, with pentachlorophenyl)
 RN 143381-13-9 CAPLUS
 CN Butanedioic acid, mono[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-
 dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl] ester, (R)-,
 compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143381-12-8
 CMF C34 H36 N2 O10

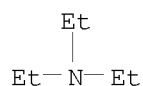
Absolute stereochemistry.



CM 2

CRN 121-44-8

CMF C6 H15 N



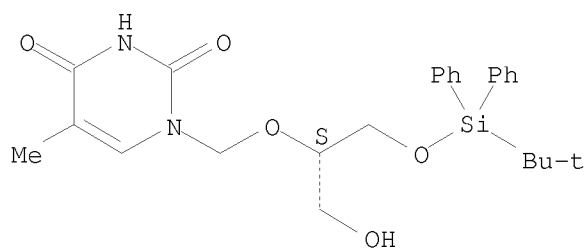
IT 143381-06-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and tritylation of)

RN 143381-06-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-
1-(hydroxymethyl)ethoxy]methyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



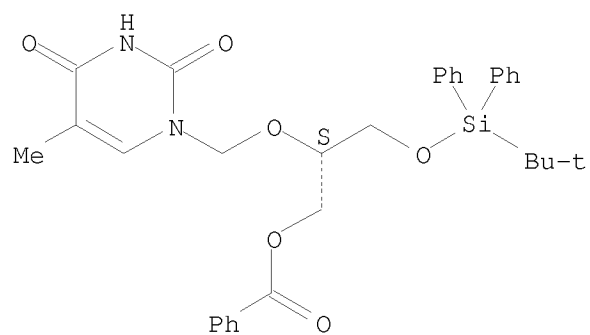
IT 143381-03-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, debenzoylation, and desilylation of)

RN 143381-03-7 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-(benzoyloxy)-1-[[[(1,1-
dimethylethyl)diphenylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (S)-
(9CI) (CA INDEX NAME)

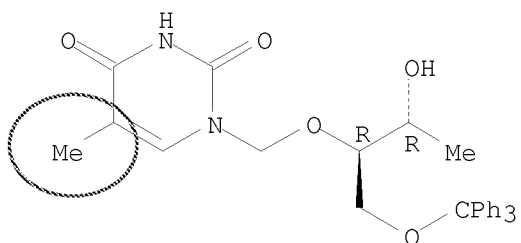
Absolute stereochemistry.



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

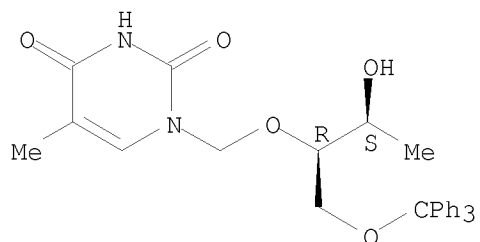
L11 ANSWER 95 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:490674 CAPLUS
 DN 117:90674
 OREF 117:15849a,15852a
 TI Synthesis of 1',2'-seco-nucleoside analogs of AZT
 AU Vemishetti, Purushotham; El Subbagh, Hussein I.; Abushanab, Elie; Panzica, Raymond P.
 CS Dep. Med. Chem., Univ. Rhode Island, Kingston, RI, 02881, USA
 SO Nucleosides & Nucleotides (1992), 11(2-4), 739-48
 CODEN: NUNUD5; ISSN: 0732-8311
 DT Journal
 LA English
 OS CASREACT 117:90674
 AB Seco-nucleosides I were prepared and evaluated as antiviral agents. The chiral, acyclic side chains of these thymine acyclonucleosides were derived from D-isoascorbic acid. I were screened against HIV, other RNA viruses, and two DNA viruses and they were found to be inactive.
 IT 142681-62-7P 142681-66-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and azidolysis of)
 RN 142681-62-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-hydroxy-1-[(triphenylmethoxy)methyl]propoxy)methyl]-5-methyl-, [R-(R*,R*)]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 142681-66-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-hydroxy-1-[(triphenylmethoxy)methyl]propoxy)methyl]-5-methyl-, [R-(R*,S*)]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



10/585,283

L11 ANSWER 96 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1992:490666 CAPLUS

DN 117:90666

OREF 117:15845a,15848a

TI Synthesis of some analogs of 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine (HEPT) which have different types of acyclic structures

AU Tanaka, Hiromichi; Miyasaka, Tadashi; Sekiya, Kouichi; Takashima, Hideaki; Ubasawa, Masaru; Nitta, Issei; Baba, Masanori; Walker, R. T.; De Clercq, E.

CS Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan

SO Nucleosides & Nucleotides (1992), 11(2-4), 447-56

CODEN: NUNUD5; ISSN: 0732-8311

DT Journal

LA English

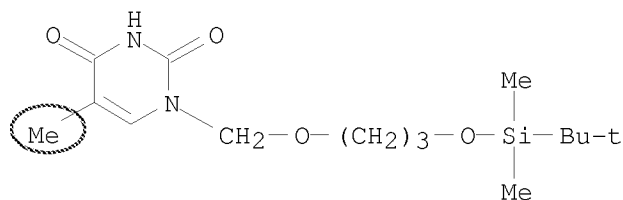
AB Analogs of a recently developed specific anti-HIV-1 agent HEPT, having different types of acyclic moieties, I-III were synthesized based on lithiation chemical Anti-HIV-1 activity of these analogs is also described.

IT 125057-15-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and sequential sulfuration and desilylation of)

RN 125057-15-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propoxy]methyl]-5-methyl- (CA INDEX NAME)

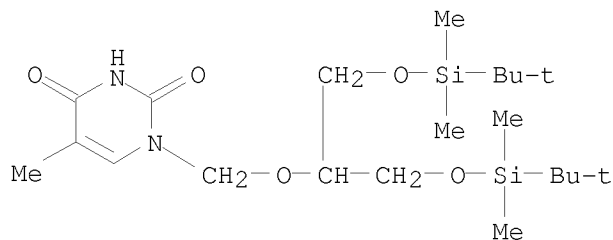


IT 125057-17-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and sulfuration of)

RN 125057-17-2 CAPLUS

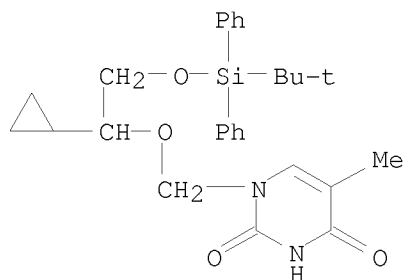
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



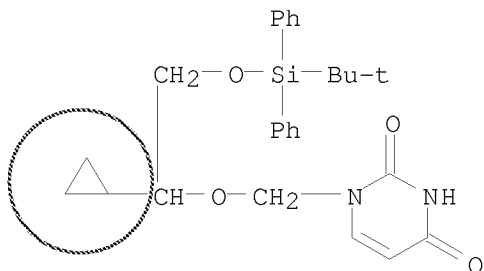
OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

10/585,283

L11 ANSWER 97 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:427024 CAPLUS
 DN 117:27024
 OREF 117:4907a,4910a
 TI Convenient synthesis of (\pm)-1',2'-seco-2',3'-methanonucleosides
 AU Nechab, Malika; Chavis, Claude; Lucas, Marc; Imbach, Jean Louis
 CS Lab. Chim. Bio-Org., Univ. Montpellier II, Montpellier, 34095, Fr.
 SO Synthetic Communications (1992), 22(8), 1115-26
 CODEN: SYNCAV; ISSN: 0039-7911
 DT Journal
 LA English
 OS CASREACT 117:27024
 AB The racemic 1',2'-seco-2',3'-methanonucleosides I (B =adenine, cytosine, guanine, thymine, uracil) have been synthesized by a 5 step chemical sequence. None of the 5 nucleosides had any effect against various DNA or RNA viruses in cell cultures.
 IT 141619-32-1P 141619-35-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and desilylation of)
 RN 141619-32-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-cyclopropyl-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

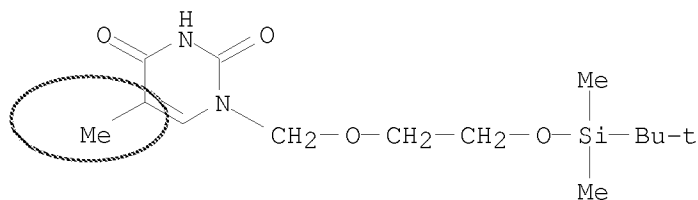


RN 141619-35-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-cyclopropyl-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)



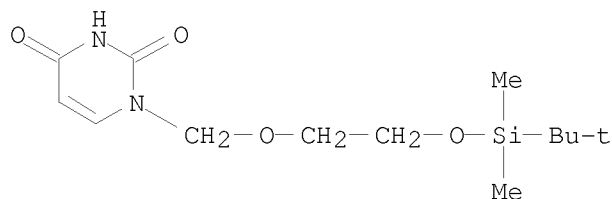
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L11 ANSWER 98 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:59876 CAPLUS
 DN 116:59876
 OREF 116:10381a,10384a
 TI Structure-activity relationships of
 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine analogs: effect of
 substitutions at the C-6 phenyl ring and at the C-5 position on anti-HIV-1
 activity
 AU Tanaka, Hiromichi; Takashima, Hideaki; Ubasawa, Masaru; Sekiya, Kouichi;
 Nitta, Issei; Baba, Masanori; Shigeta, Shiro; Walker, Richard T.; De
 Clercq, Erik; Miyasaka, Tadashi
 CS Sch. Pharm. Sci., Showa Univ., Shinagawa, 142, Japan
 SO Journal of Medicinal Chemistry (1992), 35(2), 337-45
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 OS CASREACT 116:59876
 AB The effect of substitution on the pyrimidine moiety of the title compds. I
 (R = 1, R1 = Me; X = O, S) on anti-HIV-1 activity was investigated by
 synthesizing a series of 5-methyl-6-(arylthio) and
 5-substituted-6-(phenylthio) derivs. Preparation of the 5-methyl-6-(arylthio)
 derivs. was carried out via lithiation of thymines II (X = O, S) followed
 by reaction with diaryl disulfides or via addition-elimination reaction of
 1-[[2-(tert-butyldimethylsiloxy)ethoxy]methyl]-6-(phenylthio)uracil or
 5-alkyl-1-[[2-tert-butyldimethylsilyloxy]ethoxy]methyl]-2-thiouracil
 derivs. Substitution at the meta position of the C-6-(phenylthio) ring of
 I (R = H, R1 = Me, X = O) improved the anti-HIV-1 activity, i.e. ED50 of I
 (R = 3,5-Me2, R1 = Me, X = O, S) = 0.26. When the 5-Me group was replaced
 by an Et or an iso-Pr group, the anti-HIV-1 activity was also improved
 remarkably i.e. I (R = H, R1 = Et, CHMe2, X = S) ED50, 0.11, 0.059 μ M.
 IT 121749-98-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with diaryl disulfides)
 RN 121749-98-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-
 dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

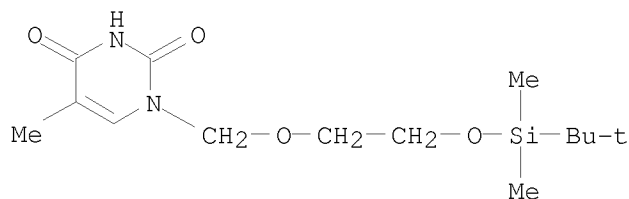


OSC.G 93 THERE ARE 93 CAPLUS RECORDS THAT CITE THIS RECORD (93 CITINGS)

L11 ANSWER 99 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:632736 CAPLUS
 DN 115:232736
 OREF 115:39693a,39696a
 TI Activity of acyclic 6-(phenylselenenyl)pyrimidine nucleosides against human immunodeficiency viruses in primary lymphocytes
 AU Goudgaon, Naganna M.; Schinazi, Raymond F.
 CS Veterans Aff. Med. Cent., Atlanta, GA, USA
 SO Journal of Medicinal Chemistry (1991), 34(11), 3305-9
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 OS CASREACT 115:232736
 AB Several 6-phenylselenenyl-substituted acyclouridine derivs., e.g. I (R = H, F, Cl, Me, R1 = SePh), were prepared from acyclonucleosides I (R1 = H) in 3 steps. The potency and spectrum of activity of title compds. against HIV-1 in vitro was similar to I (R = Me, R1 = SPh) (HEPT). However, whereas HEPT inhibited HIV-1 reverse transcriptase, the selenium-containing derivs. were ineffective suggesting a different mechanism of action. Of significance was the finding that the 6-phenylselenenyl acyclonucleosides inhibited also HIV-2 in primary human lymphocytes.
 IT 121749-94-8P 121749-98-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and sequential lithiation and reaction of, with di-Ph diselenide)
 RN 121749-94-8 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)

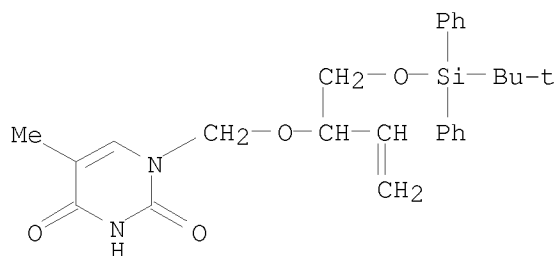


RN 121749-98-2 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



OSC.G 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

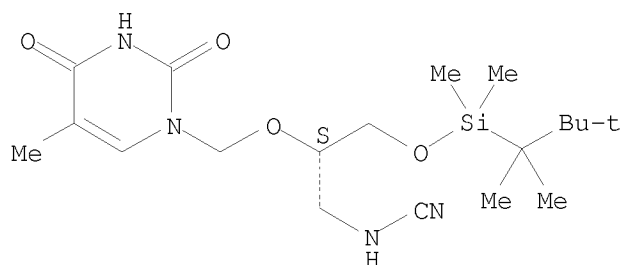
L11 ANSWER 100 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:536610 CAPLUS
 DN 115:136610
 OREF 115:23447a,23450a
 TI Synthesis of 1',2'-seco analogs of dideoxy didehydro nucleosides as potential antiviral agents
 AU Azymah, Muhammad; Chavis, Claude; Lucas, Marc; Imbach, Jean Louis
 CS Lab. Chim. BioOrg., Univ. Montpellier II, Montpellier, 34095, Fr.
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1991), (6), 1561-3
 CODEN: JCPRB4; ISSN: 0300-922X
 DT Journal
 LA English
 OS CASREACT 115:136610
 AB The racemic 1',2'-seco analogs of dideoxydidehydronucleosides, e.g. I (B = adenine, thymine, cytosine), have been synthesized via 6-step chemical sequence and their antiviral evaluation is reported. None of the acyclic unsatd. nucleosides had any effect against various DNA or RNA viruses in cell cultures.
 IT 136083-18-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and desilylation of)
 RN 136083-18-6 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-propen-1-yl]oxy]methyl]-5-methyl-
 (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

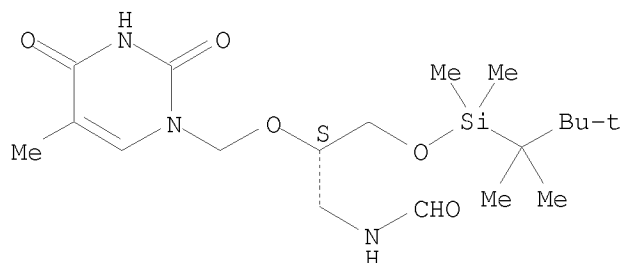
L11 ANSWER 101 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:409234 CAPLUS
 DN 115:9234
 OREF 115:1809a,1812a
 TI Synthesis of acyclic analogs of azidothymidine, aminothymidine, and related nucleosides
 AU Trinh Minh Chau; Florent, Jean Claude; Grierson, David S.; Monneret, Claude
 CS Sect. Biol., Inst. Curie, Paris, 75231, Fr.
 SO Tetrahedron Letters (1991), 32(11), 1447-8
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 AB The acyclonucleoside analogs I (R = N3, NH2, NHCN, NHCHO) were prepared from epichlorhydrin and thymine.
 IT 134160-47-7P 134160-48-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and desilylation of)
 RN 134160-47-7 CAPLUS
 CN Cyanamide, [2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[dimethyl(1,1,2,2-tetramethylpropyl)silyl]oxy]propyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134160-48-8 CAPLUS
 CN Formamide, N-[2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-[[dimethyl(1,1,2,2-tetramethylpropyl)silyl]oxy]propyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 134160-46-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

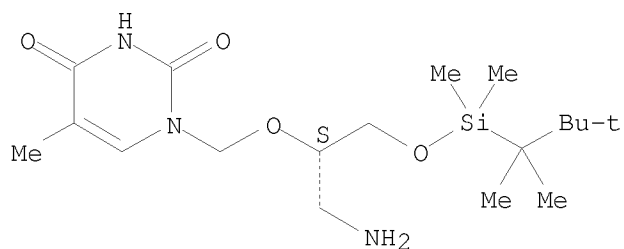
(Reactant or reagent)

(preparation and reaction of, with cyanogen bromide and sodium acetate)

RN 134160-46-6 CAPLUS

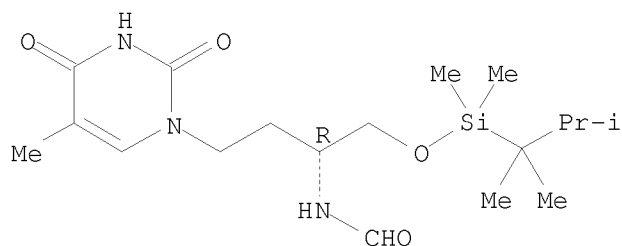
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-amino-1-[[[dimethyl(1,1,2,2-tetramethylpropyl)silyl]oxy]methyl]ethoxy]methyl]-5-methyl-, (S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



L11 ANSWER 102 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:62601 CAPLUS
 DN 114:62601
 OREF 114:10755a,10758a
 TI Synthesis of 1-(3-R-amino-4-hydroxybutyl)thymine acyclonucleoside. Analogs as potential anti-AIDS drugs
 AU Genevois-Borella, Arielle; Florent, Jean Claude; Monneret, Claude; Grierson, David S.
 CS Inst. Chim. Subst. Nat., Gif-sur-Yvette, 91198, Fr.
 SO Tetrahedron Letters (1990), 31(34), 4879-82
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 OS CASREACT 114:62601
 AB The 1-(3-R-amino-4-hydroxybutyl)thymine acyclonucleoside analogs I (R = NH₂, NHCONH₂, NMe₂, NHCN, NHCHO, NC, N₃) and the corresponding 3-methylamine derivs. II (R = H, NO) were prepared from the di-Bu ester of R-(-)-aspartic acid.
 IT 131652-66-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and dehydration of)
 RN 131652-66-9 CAPLUS
 CN Formamide, N-[3-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-1-[[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]methyl]propyl]-, (R)- (9CI)
 (CA INDEX NAME)

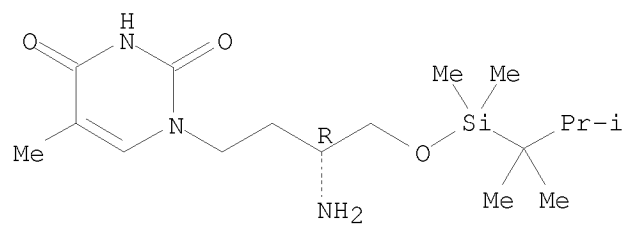
Absolute stereochemistry.



IT 131652-41-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction with triflic azide)
 RN 131652-41-0 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-amino-4-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]butyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/585,283



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L11 ANSWER 103 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1991:43451 CAPLUS

DN 114:43451

OREF 114:7581a,7584a

TI A new class of HIV-1 specific 6-substituted acycloauridine derivatives: synthesis and anti-HIV-1 activity of 5- or 6-substituted analogs of 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine (HEPT)

AU Tanaka, Hiromichi; Baba, Masanori; Hayakawa, Hiroyuki; Sakamaki, Takashi; Miyasaka, Tadashi; Ubasawa, Masaru; Takashima, Hideaki; Sekiya, Kouichi; Nitta, Issei; et al.

CS Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan

SO Journal of Medicinal Chemistry (1991), 34(1), 349-57

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 114:43451

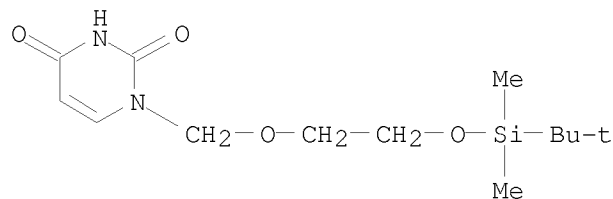
AB Novel acycloauridine derivs. substituted at both the C(5) and C(6) positions were synthesized for the purpose of improving the activity of a recently reported HIV-1-specific lead, 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine (HEPT). Preparation of C(6) substituted derivs. was carried out based on the following three methods: (1) LDA (lithium diisopropylamide) lithiation of thymine derivative I (R = H) and subsequent reaction with electrophiles, (2) an addition-elimination reaction of HEPT or its 6-(phenylsulfinyl)derivative I (R = SPh), or (3) palladium-catalyzed cross-coupling between 6-iodo derivative I (R = iodo) and terminal alkynes. Following these methods, 21 C(6) substituted analogs were synthesized. Among these II (R = cyclohexylthio, phenoxy, and benzyl) derivs. showed anti-HIV-1 (HTLV-IIIB) activity with EC50 values of 8.2, 85, and 23 μ M, resp. Preparation of C(5) substituted derivs. was based on either LTMP (lithium 2,2,6,6-tetramethylpiperidide) lithiation of 6-(phenylthio)uracil derivative III (R1 = H) or the above mentioned palladium-catalyzed cross-coupling of 5-iodo-6-(phenylthio)uracil derivative III (R1 = iodo). Following these methods, 11 C(5) substituted analogs were synthesized. 5-Substituted derivs. IV [R1 = iodo, CH:CPh2, CH:CHPh-(Z), and CH:CH2] were more active than HEPT, but their selectivity indexes (SI = CC50/EC50) were lower than that of HEPT. II (R = cyclohexylthio) was also evaluated against another HIV-1 strain (HTLV-IIIRF) and HIV-2 strains (LAV-2ROD and LAV-2EHO). Only HTLV-IIIRF was as sensitive as HTLV-IIIB.

IT 121749-94-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(lithiation and alkylation of, with benzyl bromide)

RN 121749-94-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)



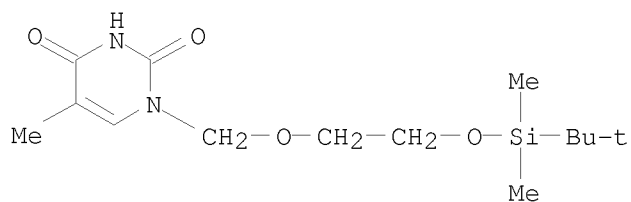
IT 121749-98-2P

10/585,283

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and C-benzoylation or sulfuration of, with dialkyl disulfides)

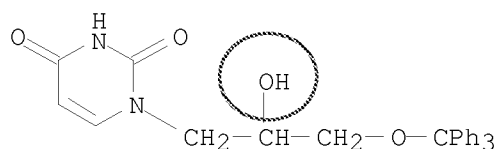
RN 121749-98-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



OSC.G 96 THERE ARE 96 CAPLUS RECORDS THAT CITE THIS RECORD (96 CITINGS)

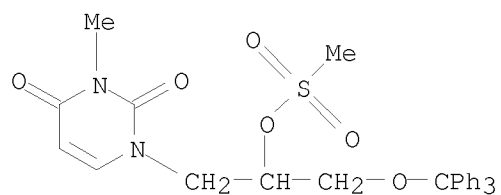
L11 ANSWER 104 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:23653 CAPLUS
 DN 114:23653
 OREF 114:4217a,4220a
 TI Stereocontrolled conversion of 1-(3-hydroxyprop-1-enyl)uracil isomers into polyfunctional 3,9-propano- and 3,9(9,3)-propeno-aza-9H-xanthines
 AU Jokic, Milan; Skaric, Vinko
 CS Lab. Stereochem. Nat. Prod., "Ruder Boskovic" Inst., Zagreb, 41001, Yugoslavia
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1990), (8), 2225-32
 CODEN: JCPRB4; ISSN: 0300-922X
 DT Journal
 LA English
 OS CASREACT 114:23653
 AB With DBU, 1-(3-azido-, and 1-(3-trityloxy-2-methylsulfonyloxypropyl)-3-methyluracil underwent elimination to give the E- and Z-prop-1-enyl isomers. Treatment of (E)- and (Z)-1-(3-hydroxyprop-1-enyl)-3-methyluracil with Br₂-MeOH generated asym. centers at C-1' and C-2', providing threo- and erythro-5-bromo-1-(2-bromo-3-hydroxy-1-methoxypropyl)-3-methyluracil (I). Conversion of I into erythro- and threo-5-bromo-1-(2,3-epoxy-1-methoxypropyl)-3-methyluracil was accomplished under mild DBU-elimination conditions. The reaction of the diastereoisomeric epoxides with NaN₃-DMF produced erythro- and threo-1-(3-azido-2-hydroxy-1-methoxypropyl)-3-methyluracil. These isomers underwent two types of intramol. cyclization reaction, which gave trans- and cis-2-azidomethyl-3-methoxy-6-methyl-2,3-dihydrooxazolo[3,2-c]pyrimidines-5,7-dione (II) and cis- and trans-11-hydroxy-12-methoxy-1-methyl-3,9-propano-8-aza-9H-xanthine (III). The elimination reaction of 12-methoxy-1-methyl-11-methylsulfonyloxy-3,9-propano-8-aza-9H-xanthine with DBU gave 12-methoxy-1-methyl-9,3-propeno-8-aza-9H-xanthine (IV). Its 3,9-propeno isomer was obtained from a DBU-elimination of 11-bromo-10-methoxy-1-methyl-3,9-propano-8-aza-9H-xanthine. IV was converted into 11-bromo-10,12-dimethoxy-1-methyl-3,9-propano-8-aza-9H-xanthine on treatment with Br-MeOH.
 IT 87009-17-4
 RL: RCT (Reactant); RACT (Reactant or reagent) (methylation of)
 RN 87009-17-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-hydroxy-3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



IT 130967-32-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and elimination reaction of)
 RN 130967-32-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 3-methyl-1-[2-[(methylsulfonyl)oxy]-3-

10/585,283

(triphenylmethoxy)propyl]- (CA INDEX NAME)

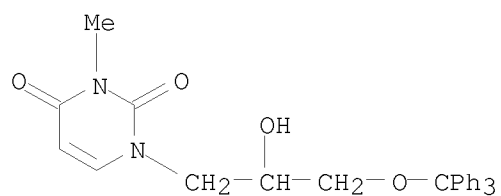


IT 130967-31-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and mesylation of)

RN 130967-31-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-hydroxy-3-(triphenylmethoxy)propyl]-3-
methyl- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L11 ANSWER 105 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1990:591849 CAPLUS
 DN 113:191849
 OREF 113:32497a,32500a
 TI Isosteric oligonucleotide analogs containing sulfur
 IN Benner, Steven Albert
 PA Switz.
 SO PCT Int. Appl., 88 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 8912060	A1	19891214	WO 1989-US2323	19890526
	W: AU, JP				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	US 5216141	A	19930601	US 1988-202528	19880606
	AU 8937654	A	19900105	AU 1989-37654	19890526
	AU 635209	B2	19930318		
	EP 418309	A1	19910327	EP 1989-906936	19890526
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 03505452	T	19911128	JP 1989-506581	19890526
PRAI	US 1988-202528	A	19880606		
	WO 1989-US2323	A	19890526		

AB Oligonucleotides containing isosteric S linkages instead of a phosphate, e.g. I, which are resistant to chemical and in vivo enzymic degradation, lipophilic, and thereby easily cross biol. barriers, and thus useful as, e.g. probes for cDNA, can be prepared from rigid or flexible isosteric building blocks [II, III, and IV; X = O, CH₂; R = OH, R₁ = SH; or R = SH, R₁ = OH; B = heterocycle ring selected from (aza)pyrimidine, (aza)purine, pyrrolopyrimidine, pyrazolopyrimidine, triazolopyrimidine, imidazolopyrimidine, pyrrolopyridine, pyrazolopyridine, and triazolopyridine, which may be functionalized with NH₂, HO, halo, acylamino, or acylhydroxy]. Thus, ozonolysis of 2-(pivaloyloxymethyl)cyclohex-4-enol (V; R₃ = pivaloyl) (preparation given) in MeOH and treatment of the resulting 3,4-trans-1-methoxy-3-pivaloyloxymethyl-4-(2'-hydroxyethyl)tetrahydrofuran with Dowex W50 in refluxing PhMe gave a 2,8-dioxo[1.2.3]bicyclooctane (VI) which was stirred 15 h at room temperature with

bis(trimethylsilyloxy)pyrimidine

in the presence of CF₃SO₃SiMe₃ in MeCN to give II (X = O, R = OH, R₁ = pivaloyloxy, B = 1-uracilyl). Reaction of the latter with EtO₂CN:NC₂OEt, Ph₃P, and AcSH in THF gave II (X = O, R = SAC, R₁ = pivaloyloxy, B = 1-uracilyl) which could be conveniently stored and deprotected immediately prior to condensation, by reduction with LiEt₃H (super-hydride) in THF to give a bishomonucleoside II (X = O, R = SH, R₁ = OH, B = 1-uracilyl). No synthetic examples for I or other oligonucleotides but only synthetic schemes were given. I bind to complementary A-C-C-T-C-C-T (no data).

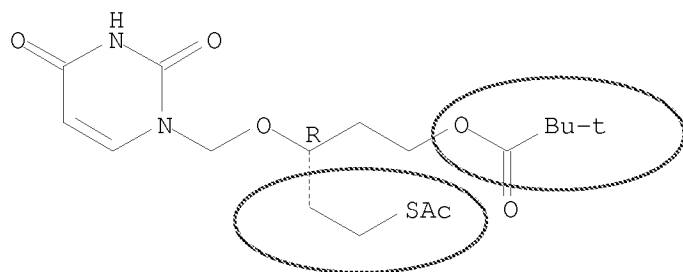
IT 128435-65-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for acyclic nucleoside analog)

RN 128435-65-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-(acetylthio)-3-[(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]pentyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G	26	THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 106 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1990:77870 CAPLUS

DN 112:77870

OREF 112:13331a,13334a

TI 6-substituted acyclic pyrimidine nucleoside derivatives and antiviral agents containing same as active ingredients

IN Miyasaka, Tadashi; Tanaka, Hiromichi; De Clercq, Erik Desire Alice; Baba, Masanori; Walker, Richard Thomas; Ubasawa, Masaru

PA Mitsubishi Kasei Corp., Japan

SO PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8909213	A1	19891005	WO 1989-JP347	19890331
	W: AU, CH, HU, JP, KR, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	AU 8933575	A	19891016	AU 1989-33575	19890331
	AU 611284	B2	19910606		
	ZA 8902407	A	19891129	ZA 1989-2407	19890331
	ES 2013664	A6	19900516	ES 1989-1127	19890331
	EP 371139	A1	19900606	EP 1989-904204	19890331
	EP 371139	B1	19941012		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	DD 283613	A5	19901017	DD 1989-327145	19890331
	CH 676712	A5	19910228	CH 1989-4102	19890331
	HU 55005	A2	19910429	HU 1986-20	19890331
	HU 206328	B	19921028		
	CA 1334535	C	19950221	CA 1989-595345	19890331
	JP 07062005	B	19950705	JP 1989-503810	19890331
	US 5112835	A	19920512	US 1989-449930	19891121
PRAI	JP 1988-76677	A	19880331		
	WO 1989-JP347	A	19890331		

OS MARPAT 112:77870

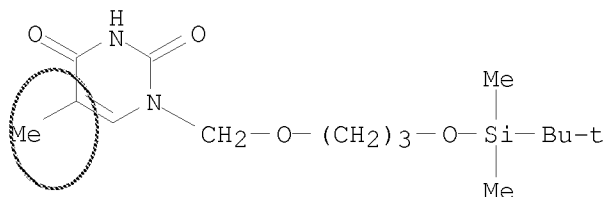
AB The title compds. [I; R1 = H, halo, alkyl, alkenyl, alkylcarbonyl, arylcarbonyl, arylcarbonylalkyl, arylthio, aralkyl; R2 = arylthio, cycloalkylthio, arylsulfoxido, (cyclo)alkylsulfoxido, alkenyl, alkynyl, aralkyl, arylcarbonyl, arylcarbonylalkyl, aryloxy; R3 = hydroxyalkyl where alkyl may be interrupted by O; X = O, S, NH₂; Y = O, S; A = NH], which have antiviral activity particularly against retroviruses such as human immunodeficiency virus (HIV), are prepared Thus, a solution of (Me₂CH)₂NLi in THF was added dropwise at -70° to a solution of 1-[(2-tert-butylidimethylsilyloxyethoxy)methyl]thymine in THF, followed by a solution of (Phs)₂ in THF at -70°. The resulting mixture was allowed to react 1 h to give 73% 1-[(2-tert-butylidimethylsilyloxyethoxy)methyl]-6-phenylthiothymine which was treated with AcOH in aqueous THF to give 91% 1-[(2-hydroxyethoxy)methyl]-6-phenylthiothymine. Eight I at 0.98-34.0 μM inhibited 50% infection of human T cell clone MT-4 cells with HIV.

IT 125057-15-0 125057-16-1 125057-17-2
125057-18-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(lithiation and phenylthiolation of, by di-Ph disulfide)

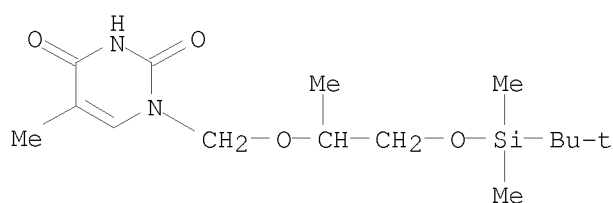
RN 125057-15-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propoxy]methyl]-5-methyl- (CA INDEX NAME)



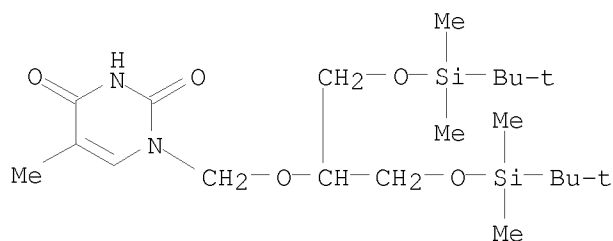
RN 125057-16-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-methylethoxy]methyl]-5-methyl- (CA INDEX NAME)



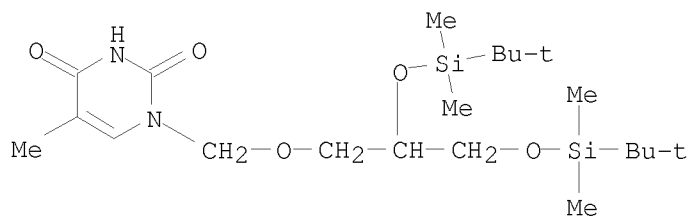
RN 125057-17-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



RN 125057-18-3 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2,3-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propoxy]methyl]-5-methyl- (CA INDEX NAME)

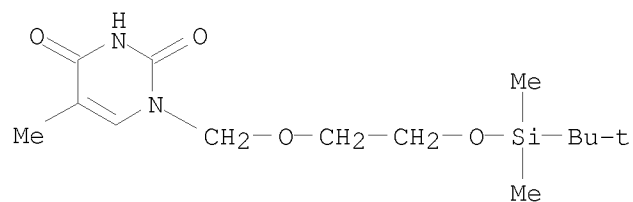


IT 121749-98-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for virucide)

RN 121749-98-2 CAPLUS

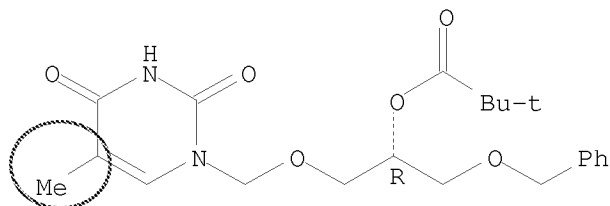
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

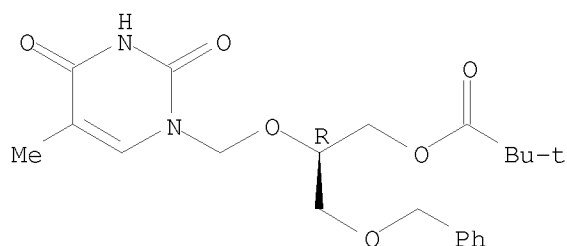
L11 ANSWER 107 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1990:50780 CAPLUS
 DN 112:50780
 OREF 112:8625a,8628a
 TI Oligonucleotides containing flexible nucleoside analogs
 AU Schneider, K. Christian; Benner, Steven A.
 CS Lab. Org. Chem., ETH, Zurich, CH-8092, Switz.
 SO Journal of the American Chemical Society (1990), 112(1), 453-5
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA English
 OS CASREACT 112:50780
 AB Oligodeoxyribonucleotides incorporating ≥ 1 oligonucleoside analogs missing carbon 2' (flexible nucleoside analogs) were synthesized, and the melting temps. of duplexes formed with complementary natural oligonucleotides were measured. The melting temperature of duplex DNA was lowered by 9-15° for each floppy nucleoside incorporated into 1 strand. This result suggests that such analogs are, in their simplest form, unsuitable as anti-sense drugs or as probes, and is relevant to the interesting suggestion that oligonucleotides composed of flexible building blocks were the 1st self-replicating life forms.
 IT 124318-79-2P 124340-11-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deprotection of)
 RN 124318-79-2 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 1-[[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy)methyl]-2-(phenylmethoxy)ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



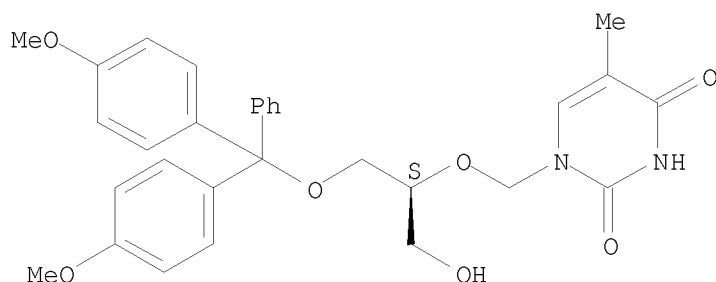
RN 124340-11-0 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]-3-(phenylmethoxy)propyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



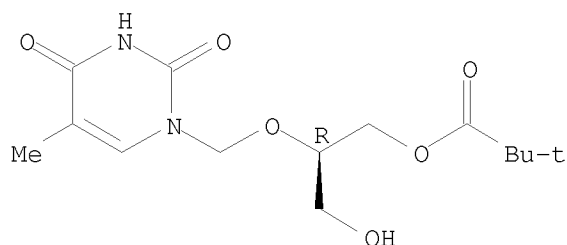
IT 124318-82-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction with cyanoethyldiisopropylphosphoramidochloridite)
 RN 124318-82-7 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[(1S)-2-[bis(4-methoxyphenyl)phenylmethoxy]-
 1-(hydroxymethyl)ethoxy]methyl]-5-methyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 124318-80-5P 124318-81-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction with dimethoxytrityl chloride)
 RN 124318-80-5 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-
 pyrimidinyl)methoxy]-3-hydroxypropyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

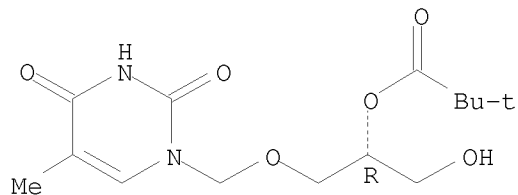


RN 124318-81-6 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-

10/585,283

pyrimidinyl)methoxy]-1-(hydroxymethyl)ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



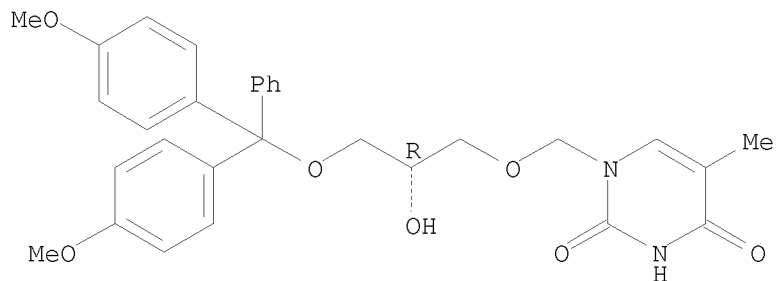
IT 124318-83-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 124318-83-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 67 THERE ARE 67 CAPLUS RECORDS THAT CITE THIS RECORD (71 CITINGS)

L11 ANSWER 108 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1989:595313 CAPLUS

DN 111:195313

OREF 111:32479a,32482a

TI A novel lead for specific anti-HIV-1 agents:

1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine

AU Miyasaka, Tadashi; Tanaka, Hiromichi; Baba, Masanori; Hayakawa, Hiroyuki; Walker, Richard T.; Balzarini, Jan; De Clercq, Erik

CS Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan

SO Journal of Medicinal Chemistry (1989), 32(12), 2507-9

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 111:195313

AB Uracil acyclonucleosides I (R = H; R1 = H, F, Cl, Br, Me; R2 = SPh, iodo) were synthesized via lithiation of I (R = SiMe2CMe3; R1 = H, F, Cl; R2 = H) and reaction of the C-6 lithiated species with I2 or PhSSPh. Among the compds. synthesized, I (R = H, R1 = Me, R2 = SPh) was a highly specific anti-HIV-1 agent with a selectivity index comparable to that of 2',3'-dideoxyadenosine. The compound showed no activity against HIV-2 and its triphosphate did not inhibit HIV-1 reverse transcriptase. This suggests that this compound manifests its activity through a mechanism different from that so far known for other nucleoside analogs.

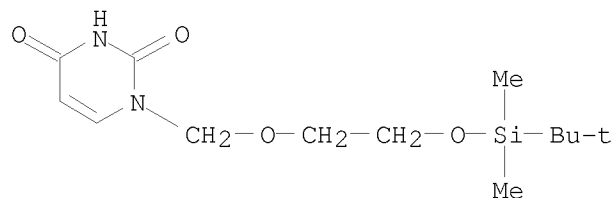
IT 121749-94-8P 121749-98-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and sequential lithiation and reaction of, with iodine or di-Ph disulfide)

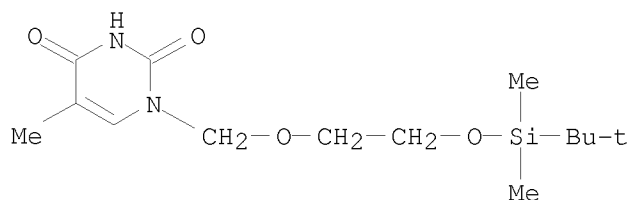
RN 121749-94-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)



RN 121749-98-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)



OSC.G 191 THERE ARE 191 CAPLUS RECORDS THAT CITE THIS RECORD (196 CITINGS)

10/585,283

L11 ANSWER 109 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1989:458280 CAPLUS

DN 111:58280

OREF 111:9907a,9910a

TI Preparation and testing of 6-iodoacyclouridine derivatives as antitumor agents.

IN Miyasaka, Sada; Tanaka, Hiromichi; Hayakawa, Hiroyuki

PA Yamasa Shoyu Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

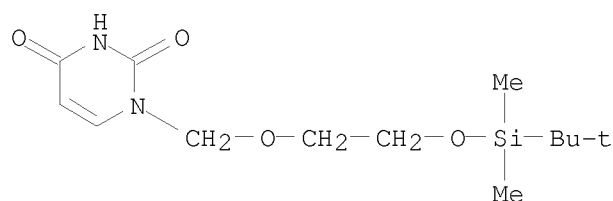
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01006260	A	19890110	JP 1987-160765	19870627
PRAI	JP 1987-160765		19870627		
OS	MARPAT 111:58280				

AB The title compds. (I; R = iodo; R1 = H, halo, lower alkyl; R2 = H) (II) were prepared as antitumor agents. Silylation of acycloauridine with ClSiMe2CMe3 in DMF containing imidazole and treatment of the resulting I (R = R1 = H, R2 = SiMe2CMe3) with (iso-Pr)2NLi in THF followed by iodine at -70° gave I (R = iodo, R1 = H, R2 = SiMe2CMe3). Deprotection of the latter with aqueous AcOH in THF gave I (R = iodo, R1 = R2 = H). I (R = iodo, R1 = Me, R2 = H) (III) inhibited the proliferation of mouse leukemia cells L5178Y with an IC50 of 3.2 µg/mL. Tablets (100 mg) were formulated from III 10, cornstarch 65, carboxycellulose 20, polyvinylpyrrolidone 38, and Ca stearate 2mg.

IT 121749-94-8P 121749-98-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and lithiation-iodination of, in preparation of antitumor agent)

RN 121749-94-8 CAPLUS

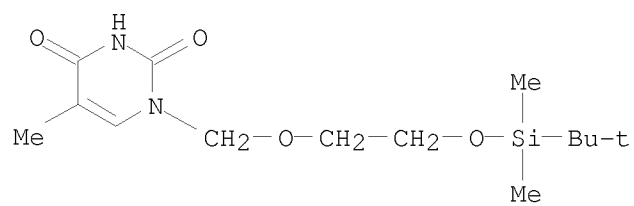
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]- (CA INDEX NAME)



RN 121749-98-2 CAPLUS

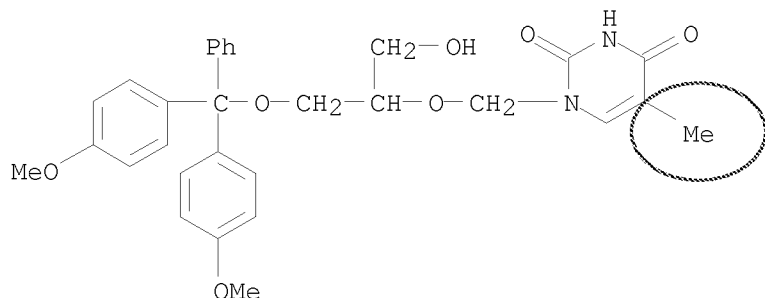
CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethoxy]methyl]-5-methyl- (CA INDEX NAME)

10/585,283

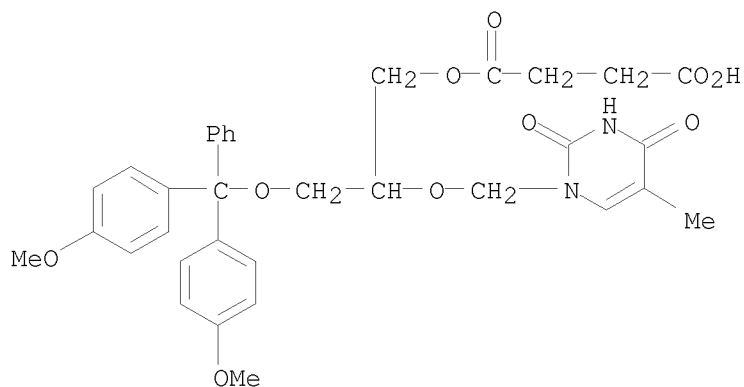


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L11 ANSWER 110 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1989:173666 CAPLUS
 DN 110:173666
 OREF 110:28829a,28832a
 TI Preparation of glyceronucleoside phosphoramidite synthons and their use in the solid-phase synthesis of acyclic oligonucleotides
 AU Usman, Nassim; Juby, Carl D.; Ogilvie, Kelvin K.
 CS Dep. Chem., McGill Univ., Montreal, QC, H3A 2K6, Can.
 SO Tetrahedron Letters (1988), 29(38), 4831-4
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 OS CASREACT 110:173666
 AB Title synthons $\text{DMTOCH}_2\text{CH}(\text{OCH}_2\text{B})\text{CH}_2\text{OP}(\text{OMe})\text{N}(\text{CHMe}_2)_2$ [DMT = dimethoxytrityl, B = N6-benzoyladeninyl, thymynyl (Thy)] were prepared by esterification using $(\text{Me}_2\text{CH})_2\text{NP}(\text{OMe})\text{Cl}$. Oligoacyclonucleotides, 2-8 units long, were synthesized using these synthons on either controlled pore glass or silica gel supports with average coupling yields up to 98%. The preparation of $\text{DMTOCH}_2\text{CH}(\text{OCH}_2\text{Thy})\text{CH}_2\text{O}_2\text{CCH}_2\text{CH}_2\text{CO}_2\text{C}_6\text{Cl}_5$ for the derivatization of long chain alkylamine controlled pore glass is also described.
 IT 120188-28-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (esterification of, with (diisopropylamino)phosphoramidic chloride Me ester, synthesis of acyclic oligonucleotides and)
 RN 120188-28-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]-5-methyl- (CA INDEX NAME)



IT 120188-25-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and esterification with pentachlorophenol)
 RN 120188-25-2 CAPLUS
 CN Butanedioic acid, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl] ester (CA INDEX NAME)



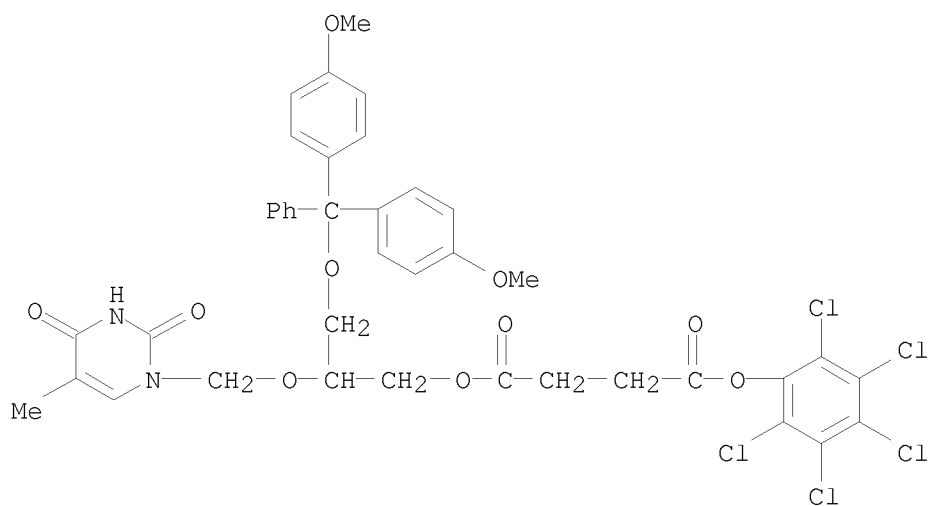
IT 120188-26-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, for derivatization of long-chain alkylamine controlled pore glass)

RN 120188-26-3 CAPLUS

CN Butanedioic acid, 1-[3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methoxy]propyl] 4-(2,3,4,5,6-pentachlorophenyl) ester (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L11 ANSWER 111 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1989:115272 CAPLUS

DN 110:115272

OREF 110:19033a,19036a

TI Preparation of acyclic nucleosides cyclic phosphoramidates having antiviral and anticancer activities

IN Takaku, Hiroshi; Yoshida, Shiro; Aoki, Tomomi; Akiba, Katsushi

PA Yodogawa Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63165373	A	19880708	JP 1986-203962	19860829
PRAI	JP 1986-203962		19860829		

OS MARPAT 110:115272

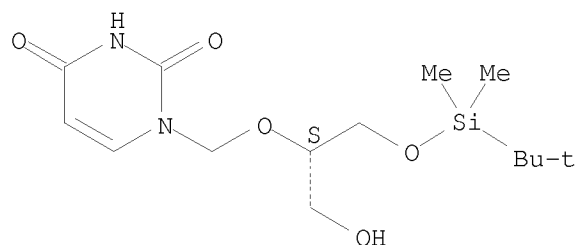
AB The title compds. [I; R = Q, Q1, tert-BuSiMe₂; R1-R3 = H, lower alkoxy; R4 = H, alkyl; R5 = H, alkyl, aryl, aralkyl, R; B = purine, pyrimidine, orazole ring] (II), having anticancer and antiviral activities, were prepared Reaction of I (R = R5 = H, B = uracil residue) with dimethoxytrityl chloride in pyridine, condensation of the resulting I (R = 4,4'-dimethoxytrityl, R5 = H) with 2-chloro-3-methyl-1-oxa-3-aza-2-phosphacyclopentane in THF containing (iso-Pr)₂NEt at -50°, and oxidation of the product HCl salt with m-ClC₆H₄CO₂OH gave I (R = 4,4'-dimethoxytrityl, R5 = Q1, R4 = Me) which was deprotected with ZnBr₂ in MeNO₂ to give I (R = H, R5 = R1; R4 = Me).

IT 119254-90-9P 119254-91-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and condensation of, with
 chloromethyloxaazaphosphacyclopentane)

RN 119254-90-9 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-(hydroxymethyl)ethoxy]methyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

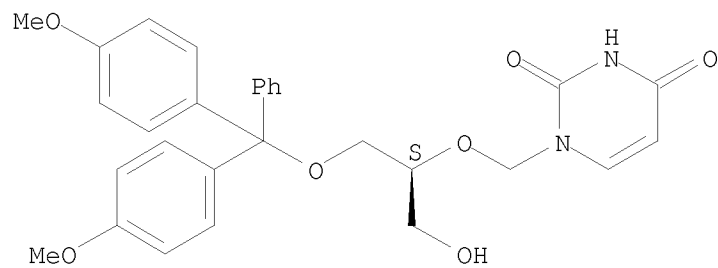


RN 119254-91-0 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/585,283



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L11 ANSWER 112 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1988:611401 CAPLUS

DN 109:211401

OREF 109:34991a,34994a

TI Preparation of acyclic nucleosides having antitumor activities

IN Takaku, Hiroshi; Yoshida, Shiro; Aoki, Tomomi; Akiba, Katsushi

PA Yodogawa Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63060929	A	19880317	JP 1986-203961	19860829
PRAI	JP 1986-203961		19860829		
OS	MARPAT 109:211401				

AB The title compds. [I; R, R1 = H, alkyl, aryl, aralkyl, Q, Me3CMe2Si, Q1; R1-R3 = H, lower alkoxy; R4 = H, alkyl; B = purine, pyrimidine, etc. ring residue] were prepared as antitumor agents. After uracil (1.12g) was azeotropically dried by evaporation with anhydrous pyridine 3 times in vacuo,

0.5

g (NH4)2SO4 and 35 mL (Me3Si)2NH were added and the mixture was refluxed for 40 min, cooled and concentrated in vacuo. To the residue, 25 mL CH2Cl2 and 0.04 g Bu4NI were added and the solution was refluxed for 10 min and cooled to room temperature. 1,3-Dibenzyloxy-2-(chloromethoxy)propane was added and the mixture was refluxed for 2 h to give 80%

1-[(1,3-dibenzyloxy-2-propoxy)methyl]uracil. This compound at 10 µg/mL in vitro inhibited by 36% the proliferation of P388 mouse leukemia.

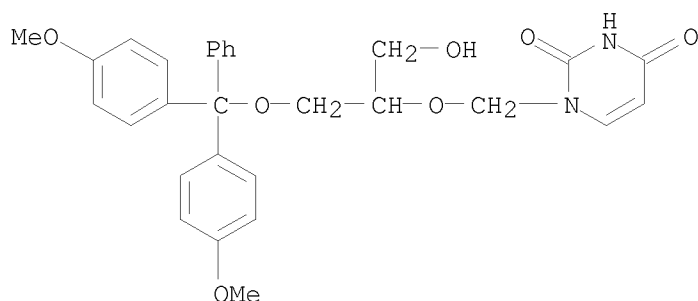
IT 114477-45-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as antitumor agent)

RN 114477-45-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L11 ANSWER 113 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1988:493532 CAPLUS

DN 109:93532

OREF 109:15629a,15632a

TI Preparation of glycerides and antitumor agents containing them

IN Tsushima, Susumu; Kozai, Yoshio

PA Takeda Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 82 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62174011	A	19870730	JP 1986-231427	19860929
	JP 07080766	B	19950830		
PRAI	JP 1985-219874	A1	19851001		

AB R1OCH2CHR2CH2XC(O)Y-R3-ZR4 [I; R1 = alkyl, alkylcarbamoyl; R2 = H, (un)substituted OH, cyclic or (un)substituted NH2; R3 = bond, (un)substituted alkylene; R4 = H, alkyl, aralkyl; X, Y = O, S, (un)substituted NH; Y = X = NH or Y and R4 form a ring; Z = (un)substituted NH or N-containing heterocycllyl], useful as antitumor agents, were prepared 2-(Aminomethyl)pyridine and crude 2-O-methyl-3-O-phenoxy-carbonyl-1-O-(octadecylcarbamoyl)glycerin [prepared from 2-O-methyl-1-O-(octadecylcarbamoyl)glycerin and PhO2CCl in CH2Cl2 containing pyridine] in CHCl3 was refluxed 12 h to give 84.7% 2-O-methyl-3-O-[N-(2-pyridylmethyl)carbamoyl-1-O-(octadecylcarbamoyl)glycerin which was N-acetylated with Ac2O and Et3N in CHCl3 under reflux and then quaternized with EtI under reflux to give 3-[N-acetyl-N-(N'-ethylpyridin-2-yl)methyl]carbamoyl-2-methyl-1-(octadecylcarbamoyl)glycerin chloride (II). Injections containing I were prepared II inhibited the proliferation of KB cells with an ED50 of 0.16 µg/mL.

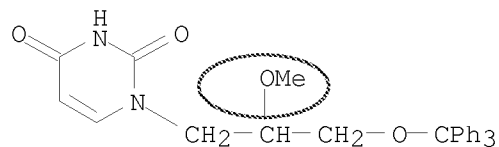
IT 100489-04-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and alkylation of, by (chloromethyl)pyridine)

RN 100489-04-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



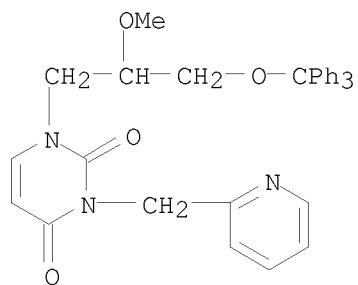
IT 100489-05-2P 100489-09-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and detritylation of)

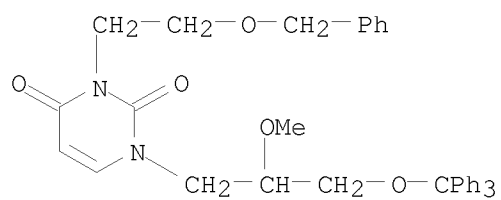
RN 100489-05-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]-3-(2-pyridinylmethyl)- (CA INDEX NAME)



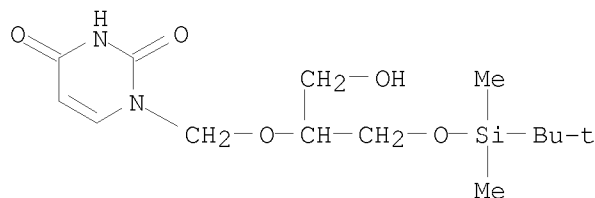
RN 100489-09-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]-3-[2-(phenylmethoxy)ethyl]- (CA INDEX NAME)

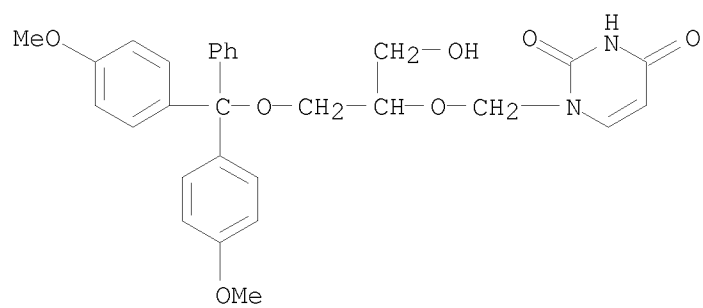


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L11 ANSWER 114 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1988:204992 CAPLUS
 DN 108:204992
 OREF 108:33701a,33704a
 TI Synthesis and biological evaluation of some acyclic nucleoside cyclic phosphoramidate derivatives
 AU Takaku, Hiroshi; Ito, Tsunehiko; Yoshida, Shiro; Aoki, Tomoni; De Clercq, Erik
 CS Lab. Bioorg. Chem., Chiba Inst. Technol., Chiba, 275, Japan
 SO Nucleosides & Nucleotides (1987), 6(4), 793-802
 CODEN: NUNUD5; ISSN: 0732-8311
 DT Journal
 LA English
 OS CASREACT 108:204992
 AB The acyclic nucleosides I [R = H, R, R1 = dimethoxytrityl; R = H, R1 = Si(CMe3)Me2] were treated with 2-chloro-3-methyl-1-oxa-3-aza-2-phosphacyclopentane (II) in the presence of diisopropylethylamine to give the corresponding phosphoramidite derivs., which were oxidized with m-chloroperbenzoic acid to the phosphoramidate derivs. III (R, R1 same). Treatment of III (R = H, R, R1 = dimethoxytrityl) with ZnBr2 in CH3NO2 gave III (R1 = H). Attempts at desilylation of III by Bu4NF resulted in opening of the phosphoramidate ring. The newly synthesized compds. were evaluated for antiviral and antitumor cell activity.
 IT 114477-47-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and phosphorylation of, with
 chloromethyloxazaphosphocyclopentene)
 RN 114477-47-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-(hydroxymethyl)ethoxy]methyl]- (CA INDEX NAME)



IT 114477-45-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and phosphorylation of, with
 chloromethyloxazaphosphacyclopentene)
 RN 114477-45-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[bis(4-methoxyphenyl)phenylmethoxy]-1-(hydroxymethyl)ethoxy]methyl]- (CA INDEX NAME)



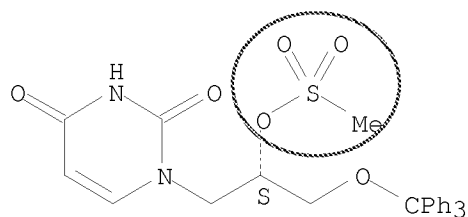
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L11 ANSWER 115 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1987:138142 CAPLUS
 DN 106:138142
 OREF 106:22529a,22532a
 TI Anti-cyclization reactions of enantiomeric 1-(2,3-dihydroxypropyl)uracil derivatives
 AU Skaric, V.; Kasnar, B.
 CS Lab. Stereochem. Nat. Prod., "Rudjer Boskovic" Inst., Zagreb, 41001, Yugoslavia
 SO Croatica Chemica Acta (1986), Volume Date 1985, 58(4), 583-92
 CODEN: CCACAA; ISSN: 0011-1643
 DT Journal
 LA English
 AB 2-Hydroxymethyltetrahydrooxazolo[3,2-c]pyrimidine-5,7-(4H,6H)-diones (R,S)-I, (R)-I, and (S)-I (R = H) were prepared The CH₂N₂ methylation of I (R = H) gave I (R = Me). For the synthesis of (R)- and (S)-I (R = H) (R)- and (S)-5-bromo-1-(2,3-dihydroxypropyl)uracil were treated with KCN in DMF. (R,S)-6-Cyano-1-(2,3-dihydroxypropyl)uracil underwent anti-cyclization yielding (R,S)-I (R = H) if heated in DMSO at 40°.

IT 107262-85-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (elimination of methanesulfonic acid from)

RN 107262-85-1 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[(methylsulfonyl)oxy]-3-(triphenylmethoxy)propyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L11 ANSWER 116 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1986:88143 CAPLUS

DN 104:88143

OREF 104:13975a,13978a

TI Glycerol derivatives and their pharmaceutical use

IN Nomura, Hiroaki; Nishikawa, Kohei; Tsushima, Susumu

PA Takeda Chemical Industries, Ltd. , Japan

SO Eur. Pat. Appl., 219 pp.

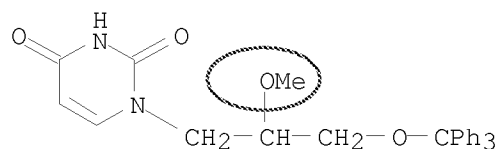
CODEN: EPXXDW

DT Patent

LA English

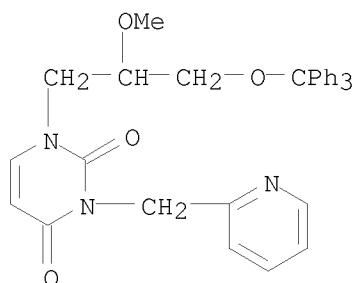
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 157609	A2	19851009	EP 1985-302202	19850329
	EP 157609	A3	19870128		
	EP 157609	B1	19921014		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	WO 8504398	A1	19851010	WO 1984-JP163	19840403
	W: MC				
	WO 8602349	A1	19860424	WO 1984-JP476	19841011
	W: MC				
	WO 8604894	A1	19860828	WO 1985-JP62	19850215
	W: MC				
	AT 81501	T	19921015	AT 1985-302202	19850329
PRAI	WO 1984-JP163	A	19840403		
	WO 1984-JP476	A	19841011		
	WO 1985-JP62	A	19850215		
	EP 1985-302202	A	19850329		
AB	R1OCH2CHR2CH2ZCOZ1Z2Z3R3 [I; R1 = alkyl, alkylcarbamoyl; R2 = H, (un)modified OH, amino, cyclic amino; R3 = H, alkyl, aralkyl; Z, Z1 = O, S, (un)substituted imino; Z2 = bond, (un)substituted alkylene; Z3 = imino, N heterocycle; when Z1 = imino, it may form a ring with Z or R3] (>170 compds) were prepared Thus, Me(CH2)17OCH2CH(CH2R4)OCH2Ph (II, R4 = OH) was esterified with PhO2CCl to give II (R4 = PhO2CO) which was treated with Me2NCH2CH2NH2 to give II (R4 = Me2NCH2CH2NHCO2). The latter was successively debenzylated by hydrogenation over Pd/C, acetylated, and quaternized with MeI to give Me(CH2)17OCH2CH(OAc)CH2O2CNACH2CH2N+Me3I- (III). At 3 + 10-6M III totally inhibited blood platelet aggregation. I are also effective antihypotensives in mice at 0.1-1.0 mg/kg i.v.				
IT	100489-04-1P	100489-05-2P	100489-09-6P		
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)				
	(preparation of, as antihypotensive and platelet aggregation inhibitor)				
RN	100489-04-1	CAPLUS			
CN	2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]- (CA INDEX NAME)				



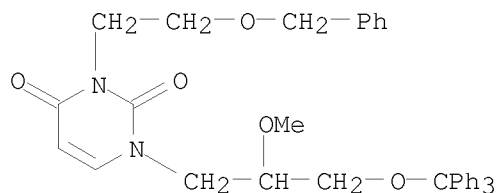
RN 100489-05-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]-3-(2-pyridinylmethyl)- (CA INDEX NAME)



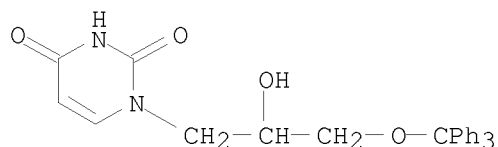
RN 100489-09-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-methoxy-3-(triphenylmethoxy)propyl]-3-[2-(phenylmethoxy)ethyl]- (CA INDEX NAME)

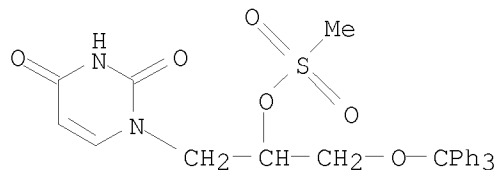


OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L11 ANSWER 117 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1983:505623 CAPLUS
 DN 99:105623
 OREF 99:16273a,16276a
 TI Homologation and intramolecular cyclization reactions in aliphatic deoxyuridine analogs series
 AU Skaric, Vinko; Jokic, Milan
 CS Lab. Stereochem. Nat. Prod., "Rudjer Boskovic" Inst., Zagreb, 41001, Yugoslavia
 SO Croatica Chemica Acta (1983), 56(1), 125-39
 CODEN: CCACAA; ISSN: 0011-1643
 DT Journal
 LA English
 AB The cyanation of 1-(2,3-epoxypropyl)uracil, followed by the ethanolysis of the resulting 3'-cyano compound to 3'-ethoxycarbonyl derivative, led to the synthesis of 1-(2,4-dihydroxybutyl)uracil (I). The oxidation of 1-allyluracil by KMnO₄ gave 1-(2,3-dihydroxypropyl)uracil (II). The intramol. transformations of suitably activated II were studied and the structures of the resulting oxazolo pyrimidinone (III), 1-(2,3-dihydroxypropyl)-2-O-methyluracil and their mesyl, azido, and trityl derivs. are described. In addition 2-azidomethyl-2,3-dihydro-7H-oxazolo[3,2-a]pyrimidin-7-one was converted into 2-aminomethyl derivative
 IT 87009-17-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and mesylation of)
 RN 87009-17-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-hydroxy-3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



IT 87009-18-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactions of)
 RN 87009-18-5 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-[(methylsulfonyl)oxy]-3-(triphenylmethoxy)propyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

10/585,283

L11 ANSWER 118 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1980:495534 CAPLUS

DN 93:95534

OREF 93:15333a,15336a

TI Ring open analogs of deoxynucleotides

AU Ogilvie, Kelvin K.; Gillen, Michael F.

CS Dep. Chem., McGill Univ., Montreal, QC, H3A 2K6, Can.

SO Tetrahedron Letters (1980), 21(4), 327-30

CODEN: TELEAY; ISSN: 0040-4039

DT Journal

LA English

AB 9-[Bis(hydroxymethyl)methoxymethyl]adenine (I) was prepared (27%) from 6-chloropurine by sequential condensation reaction with (PhCH₂OCH₂)₂CHOCH₂Cl (II), amination, and debenzylation. Similarly, condensation reaction of thymine with II, followed by debenzylation, gave 57% 1-[bis(hydroxymethyl)methoxymethyl]thymine (III). Dinucleoside monophosphates were prepared from acyclic deoxynucleoside analogs I and III, and tested with spleen and snake venom phosphodiesterases.

IT 74554-19-1P 74564-18-4P

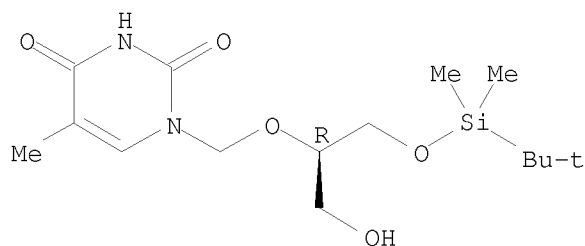
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and condensation reaction of, with protected nucleoside and trichloroethyl phosphorodichloridite)

RN 74554-19-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-(hydroxymethyl)ethoxy]methyl]-5-methyl-, (R)- (9CI) (CA INDEX NAME)

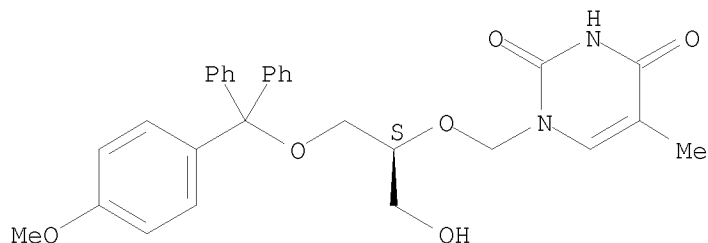
Absolute stereochemistry.



RN 74564-18-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[[2-hydroxy-1-[[[4-methoxyphenyl]diphenylmethoxy]methyl]ethoxy]methyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

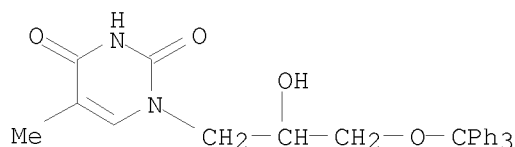
Absolute stereochemistry.



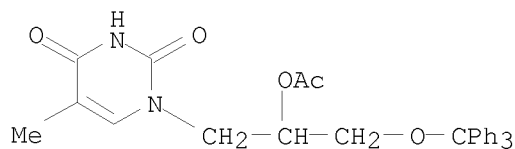
10/585,283

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L11 ANSWER 119 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1980:147107 CAPLUS
 DN 92:147107
 OREF 92:23925a,23928a
 TI Aliphatic thymidine and deoxyuridine analogs
 AU Skaric, V.; Erben, D.; Raza, Z.; Skaric, D.
 CS Lab. Stereochem. Nat. Prod., "Ruder Boskovic" Inst., Zagreb, 41001,
 Yugoslavia
 SO Croatica Chemica Acta (1979), 52(3), 281-92
 CODEN: CCACAA; ISSN: 0011-1643
 DT Journal
 LA English
 AB The oxidation of 1-allyluracil and 1-allylthymine by the AgOAc-iodine method
 gave the corresponding 1-(2,3-dihydroxypropyl) derivs. The selective
 tritylation of the glycol I (R = R1 = H) into I (R = H, R1 = CPh3) made
 feasible the synthesis of 1-(2,3-dihydroxypropyl)thymine-2'-phosphate as
 Ba salt [I, R = P(O)(O)2Ba, R1 = H] and thymidylyl
 (5'→2')-1-(2,3-dihydroxypropyl)thymine as NH4 salt.
 IT 73183-92-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and acetylation of)
 RN 73183-92-3 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-hydroxy-3-(triphenylmethoxy)propyl]-5-
 methyl- (CA INDEX NAME)

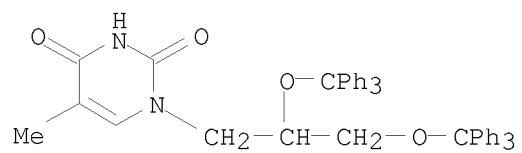


IT 73183-93-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and detritylation of)
 RN 73183-93-4 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(acetyloxy)-3-(triphenylmethoxy)propyl]-5-
 methyl- (CA INDEX NAME)



IT 73184-03-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73184-03-9 CAPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,3-bis(triphenylmethoxy)propyl]-5-methyl-
 (CA INDEX NAME)

10/585,283



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L11 ANSWER 120 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1979:611732 CAPLUS

DN 91:211732

OREF 91:34133a

TI The homologation of 1-(2,3-dihydroxypropyl)thymine into
1-(2,4-dihydroxybutyl)thymine

AU Skaric, V.; Raza, Z.

CS Lab. Stereochem. Nat. Prod., "Ruder Boskovic" Inst., Zagreb, 41001,
Yugoslavia

SO Croatica Chemica Acta (1979), 52(1), 51-9

CODEN: CCACAA; ISSN: 0011-1643

DT Journal

LA English

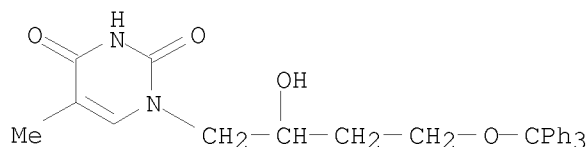
AB The title homologation involved the conversion of
1-(3-O-tosyl-2,3-dihydroxypropyl)thymine into the corresponding 3'-iodo
compound, which on treatment with NaCN in Me₂SO gave
1-(2-hydroxy-3-cyanopropyl)thymine (II). Ethanolysis of I followed by
LiAlH₄ reduction of the product gave the title nucleoside analog II (R = H).
II (R = H) was tritylated to II (R = Ph₃C), which was treated with
pyridinium 3'-O-acetylthymidine-5'-phosphate in the presence of
dicyclohexylcarbodiimide to give 3'-O-acetylthymidylyl(5'→2')-1-(4-
O-trityl-2,4-dihydroxybutyl)thymine as an N,N-dicyclohexylpseudourea
adduct.

IT 71709-65-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and acetylation of)

RN 71709-65-4 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-hydroxy-4-(triphenylmethoxy)butyl]-5-
methyl- (CA INDEX NAME)

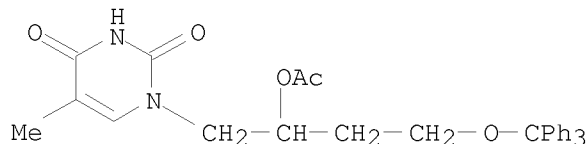


IT 71709-66-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and butylation of)

RN 71709-66-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[2-(acetyloxy)-4-(triphenylmethoxy)butyl]-5-
methyl- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/585,283

L11 ANSWER 121 OF 121 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1971:541165 CAPLUS

DN 75:141165

OREF 75:22281a,22284a

TI Unconventional nucleotide analogs. VI. Synthesis of purinyl- and pyrimidinylpeptides

AU Pandit, U. K.; De Koning, H.

CS Org. Chem. Lab., Univ. Amsterdam, Amsterdam, Neth.

SO Recueil des Travaux Chimiques des Pays-Bas (1971), 90(9-10), 1069-80
CODEN: RTCPA3; ISSN: 0165-0513

DT Journal

LA English

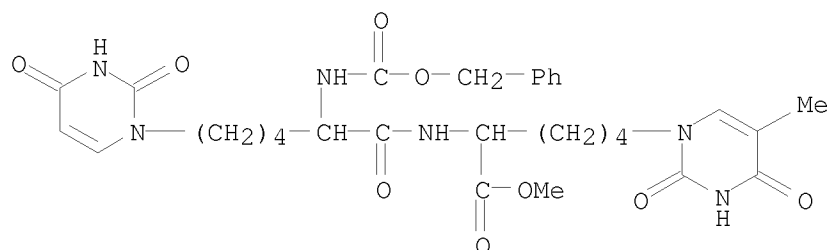
AB Homogeneous and heterogeneous peptides were synthesized from pyrimidinyl and purinyl amino acids HO₂CCH(NH₂)(CH₂)₄Q (I) (Q = N1-uracilyl, N1-thyminyl, or N9-adeninyl). Investigation of the oligopeptide derived from I (Q = N1-uracilyl) (Ia) (poly-Ia) showed no secondary structure as a result of base-base interaction; however, the polymer was found to complex weakly with poly(adenylic acid). Poly-Ia also exhibited a stimulation of phenylalanine incorporation in the in vitro synthesis of poly(phenylalanine).

IT 33895-07-7P 33895-08-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

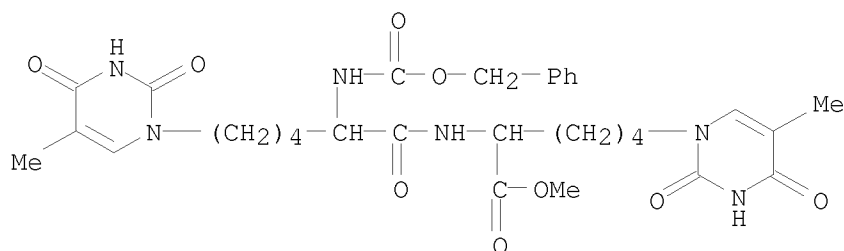
RN 33895-07-7 CAPLUS

CN 1(2H)-Pyrimidinehexanoic acid, α -[2-(carboxyamino)-6-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)hexanamido]-3,4-dihydro-5-methyl-2,4-dioxo-, N-benzyl methyl ester (8CI) (CA INDEX NAME)



RN 33895-08-8 CAPLUS

CN 1(2H)-Pyrimidinehexanoic acid, α -[2-(carboxyamino)-6-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)hexanamido]-3,4-dihydro-5-methyl-2,4-dioxo-, N-benzyl methyl ester (8CI) (CA INDEX NAME)



10/585,283

10/585,283

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

684.94

879.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-99.22

-99.22

STN INTERNATIONAL LOGOFF AT 10:42:25 ON 17 AUG 2009